

MIT's
Oldest and Largest
Newspaper



The Weather

Today: Sunny, 75°F (24°C)
Tonight: Partly cloudy, 62°F (17°C)
Tomorrow: Rainy, windy, 71°F (22°C)
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Volume 121, Number 49

Cambridge, Massachusetts 02139

Friday, October 5, 2001

IFC Elects Recruitment Chair

**Yardley Will Work
On New Rush Plans
For Upcoming Fall**

By Jeffrey Greenbaum
STAFF REPORTER

The Interfraternity Council has elected Joshua S. Yardley '04 as Recruitment Chair for the upcoming year, the first that freshmen will no longer be able to live off campus.

Yardley served as secretary of the IFC's 2002 Recruitment Committee and is a member of the Zeta Psi fraternity. He has also served as secretary of his house and secretary of the Junior Interfraternity Council.

"He is really enthusiastic to figure out the new rush plan," said Daniel J. Talavera '02, president of Zeta Psi.

Yardley believes that one of his biggest challenges as Recruitment Chair will be to motivate students to live in off-campus housing after living in dorms as freshmen.

"There are going to be some kids that will be happier in a house," Yardley said.

Phi Delta Theta President Matthew P. Van Horne '02 said that this will be specifically be a problem for Boston-based fraternities. A significant issue for the Recruitment Chair will be "to persuade freshmen to leave the dormitory that they



MIKE LIN—THE TECH

Joshua S. Yardley '04 was elected as the 2002 IFC Recruitment Chair on Wednesday evening. Yardley will preside over the transition from traditional rush to the new two week recruitment period next fall.

lived in for a year to move to another location," Van Horne said.

New rush rules more lenient

Debate during the election

process brought up the issue of the new recruitment rules, which Yardley will be responsible for. Yardley

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DiFava, Widnall Begin Logan Security Work

By Sandra M. Chung
ASSOCIATE ARTS EDITOR

Acting Governor Jane Swift appointed Colonel John DiFava of the Massachusetts State Police to the interim position of public safety director of Logan International Airport on October 3. DiFava was recently announced as the new chief of MIT's Campus Police.

Swift also recently chartered a Special Advisory Task Force to conduct a thorough investigation of the Massachusetts Port Authority (Massport). Institute Professor Sheila E. Widnall, of the Department of Aeronautics and Astronautics, was named to the Task Force Committee. Widnall also served as Secretary of the Air Force from 1993 to 1997.

"We want to take advantage of the situation to focus on the ways in which Massport needs to be improved," Widnall said.

DiFava assigned to Logan security

DiFava recently resigned his job as Superintendent of the Massachusetts State Police to begin the transition to his new position at MIT. He was scheduled to begin on October 15.

Instead, DiFava will oversee security at Logan Airport for 45

days, while the Task Force is expected to complete its investigation. DiFava is replacing Joseph Lawless, who is being reassigned to run security at the Port of Boston. DiFava will begin his new job at MIT after the interim period is over.

Massport administrators are currently facing intense criticism and scrutiny after several alleged lapses in security since the September 11 terrorist attack. Logan Airport, which is run by Massport, has one of the worst security records for U.S. airports. Massport controls the majority of the transportation and shipping industries in Massachusetts and New England.

Task force to advise Swift

The Special Advisory Task Force on Massport was created last week by an executive order from Swift. According to the official Task Force charter, "The government has the responsibility to realize that a more dangerous world requires a critical, comprehensive review of the culture and structure of Massport."

The Task Force's duty is to advise and make recommendations to the acting governor on such top-

Logan, Page 16

D.C. Police Thwart Peaceful Demonstration

By Jennifer Krishnan
NEWS EDITOR

This past weekend I learned what pepper spray smelled like. It came after we had marched halfway across Washington, D.C., from Union Station to the World Bank Building, had been blockaded into a Plaza for nearly two hours, and were being "escorted" — herded like sheep — to Freedom Plaza. The pepper spray wasn't aimed at me, but I could still taste its bitterness.

I went to Washington to voice my opinions on war, and came away with deep misgivings about the future of liberties in America.

The day began outside Union Station at nine o'clock in the morning. When we got there, a crowd was starting to gather. My co-protesters ranged from the militant-looking black-clad anarchists to the more peaceful-looking "one-world" advocates. The first thing that I noticed was that almost everyone had a bandanna. Great, I thought, let's all just perpetuate the stereotypes about crazy radicals.

Then my friend pulled a bandanna out of his pocket and said he hoped he wouldn't need it, and it all clicked. The bandannas were more than just style; they were protection in case the police let loose the tear gas.

I still wasn't too worried. After all, why would anyone gas a peaceful protest?

Here come the cops

On our way to Union Station, we passed by a bus full of cops. They certainly didn't seem to be anticipating a peaceful rally; I'd

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Students, Admins Discuss Meal Plan

By Christine R. Fry
STAFF REPORTER

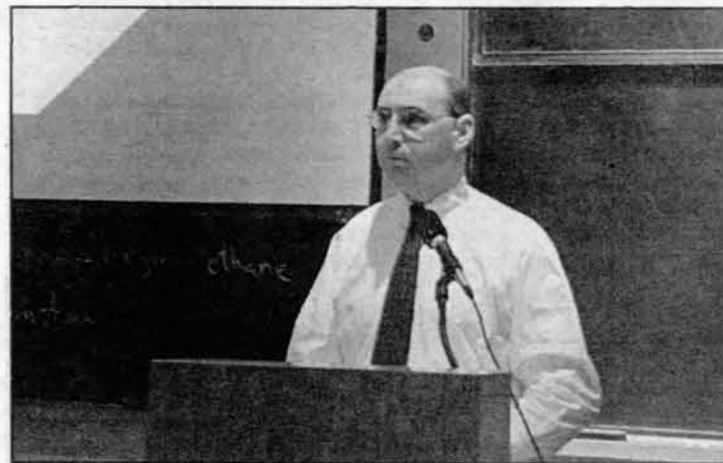
MIT's campus was abuzz with dining debate this week, as the Undergraduate Association sponsored a forum to discuss the newly proposed mandatory dining plan, and the Dormitory Council met with President Charles M. Vest.

Students, faculty, and staff came to Room 10-250 Wednesday evening to voice their opinions and ask questions of the administrators directly involved with dining issues.

Chancellor Philip L. Clay PhD '75 opened the forum by outlining the plans of the Campus Dining Review Board. Clay said the board will take input from the community for 45 days, and explore other dining options which do not mandate student participation. After the review period, the board will make recommendations to members of the upper administration, who would then make the final decision.

The details of the board's review process and proceedings have not yet been finalized.

Clay said that if the current concerns cannot be addressed by the review board, the mandatory dining plan will be in effect only for next year's incoming freshmen. However, incentives would be put in place to make voluntary participation



VINCENT CHEN—THE TECH

Director of Campus Dining Richard D. Berlin III addresses issues concerning new campus dining plan proposals.

appealing.

"We won't have a system that will proceed unsatisfactorily," Clay said.

Students oppose new plan

Several students expressed concern that a mandatory dining plan, which MIT is proposing as a community-builder, might actually destroy existing community activities of student and living groups.

Prior to the forum, multi-cultural student group Pangaea sponsored a potluck dinner. Pangaea President Jumaane A. Jeffries '02 said that

Pangaea wanted to use the potluck as an example of an event that might be "destroyed" by a mandatory meal plan.

Other students argued during the forum that any form of a mandatory meal plan might end the freedom of choice that attracted many to MIT in the first place. A resident of Burton-Conner said that many students choose the dorm because of the suite kitchens, and that mandatory dining would not allow these students the option to cook their own dinners.

Meal Plan, Page 17



Looking at
the technol-
ogy behind
the WTC.

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Comics

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OPINION

Matt Craighead says that religion is to blame for the recent terrorist attacks.

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WORLD & NATION

New York City Heads Toward 'Economic Calamity'

LOS ANGELES TIMES

NEW YORK

New York City's economy will need more than \$100 billion over the next two years to recover from the World Trade Center attacks, according to a preliminary study released Thursday by City Comptroller Alan Hevesi.

The estimate, which significantly exceeds earlier projections, comes on the heels of news that New York City's municipal government alone is likely to face a \$4 billion budget deficit later this year. And it confirms a growing perception that the nation's largest city is facing an "economic calamity," Hevesi said.

So far, President Bush and congressional leaders have earmarked a little more than \$20 billion for combined recovery costs in New York City, the Washington D.C., area, where the Pentagon was attacked, and in southwestern Pennsylvania, where one of four planes hijacked on Sept. 11 crashed.

"Clearly, this is not enough for New York City," Hevesi said. "What the president and Congress have committed is just a down payment on what it will take to ensure that the terrorists don't succeed in destroying not just the two towers, but also America's and the world's financial capitol."

Lawmakers Prepare To Revamp Spy Services

LOS ANGELES TIMES

WASHINGTON

Faced with a calamitous failure of U.S. intelligence, Congress is beginning to consider how to revamp and reinvigorate the nation's spy services in response to the Sept. 11 terrorist attacks.

Both sides of the aisle appear determined to upgrade the capability and reach of the nation's 13 known intelligence agencies, and their estimated \$30 billion annual budget — the true figure is classified — is likely to rise sharply.

The House Intelligence Committee has taken the lead in the debate. In a provocative report issued this week, the panel argued that the CIA and other intelligence agencies — which were created during the Cold War to spy on the Soviet military and other major threats — are ill-equipped to penetrate the shadowy world of transnational terrorism and religious fanaticism as personified by Osama bin Laden.

Koizumi Seeks to Ease Concerns With China And South Korea Visits

LOS ANGELES TIMES

TOKYO

Japanese Prime Minister Junichiro Koizumi plans to visit China and South Korea in the coming days in an effort to allay fears that his nation is becoming more militaristic as it gears up to support a U.S.-led strike against terrorism.

Koizumi also hopes to repair the damage caused by a controversial textbook's treatment of World War II and his own visit to a war memorial, which together put relations with Japan's two neighbors on their worst footing in years.

Chief Cabinet Secretary Yasuo Fukuda said Koizumi expects to meet with Chinese President Jiang Zemin on Monday and with South Korean President Kim Dae Jung on Oct. 15.

Beijing and Seoul rebuffed a similar summit offer from Koizumi a few months ago. The earlier cold-shoulder treatment raised fears that the prime minister might be snubbed at the summit of Asia Pacific Economic Cooperation in Shanghai, China, later this month, analysts said.

They wanted to clear the air before APEC, said Hirokazu Matsumoto, an independent foreign relations expert.

Pakistan Says that Evidence Links bin Laden to Attacks

By Rone Tempest and Marjorie Miller

LOS ANGELES TIMES

ISLAMABAD, PAKISTAN

In a significant boost from a key Muslim nation to the global anti-terrorism campaign, Pakistan officials said Thursday that "sufficient evidence" has been collected to link Saudi militant Osama bin Laden to the Sept. 11 attacks on the United States.

The announcement came after British Prime Minister Tony Blair revealed some of the first details of the international case against bin Laden in a speech before Parliament in London.

Blair, who will be in Pakistan Friday, said that at least three of the hijackers in the attacks on New York and near Washington have been "positively identified" as members of bin Laden's al-Qaida network. One of the hijackers, Blair said, also was connected by evidence to the 1998 terrorist bombings of U.S. embassies in East Africa and to the attack last year on the U.S. destroyer Cole in Yemen.

And in Washington, President Bush pledged \$320 million worth of food and medicine to aid Afghan refugees and those who remain in

the beleaguered country, the administration's latest effort to show its concern for the civilian population even as it targets Afghanistan's Taliban regime for possible attack.

The relief is to be distributed by the United Nations and private aid groups, such as the Red Cross. The U.S. military also may air-drop supplies into parts of Afghanistan.

Pakistan's position on the case against bin Laden is critical to the U.S.-led anti-terrorism efforts. The Islamic nation shares a 1,400-mile border with Afghanistan, where the Saudi is believed to be hiding, and is the last state to officially recognize the Taliban government.

On Tuesday, U.S. Ambassador Wendy Chamberlin presented a 20-page summary of evidence against bin Laden to Pakistani President Pervez Musharraf. Pakistan officials said more documentation was delivered Wednesday night.

"We have seen the material that was provided to us by the American side," Pakistani Foreign Ministry spokesman Riaz Mohammed Khan said Thursday. "This material certainly provides sufficient basis for indictment in a court of law."

Privately, a senior Pakistan official was less restrained, describing

the material as "impressive" and "weighty."

In London, Blair presented to the special session of Parliament a dossier against bin Laden.

According to the document, the intelligence sources have confirmed that bin Laden told associates prior to last month's attacks that he was preparing a major operation in the United States and that they should return to Afghanistan from other parts of the world by Sept. 10.

However, Blair gave the lawmakers few details, saying that evidence was withheld to protect intelligence sources.

"There is other intelligence we cannot disclose of an even more direct nature indicating guilt," Blair said.

The dossier cautions that the information did not amount to a prosecutable case. But Blair said the evidence was incontrovertible.

"We have absolutely no doubt that bin Laden and his network were responsible for the attacks on Sept. 11," Blair told Parliament.

Blair said that bin Laden and his al-Qaida network were able to carry out the attacks on the U.S. "because of their close alliance with the Taliban regime" in Afghanistan.

Unemployment Relief Expands

Bush Plan Extends Benefits for Jobs Lost In Attacks

By Warren Vieth and Janet Hook

LOS ANGELES TIMES

WASHINGTON

President Bush on Thursday proposed a 13-week extension of unemployment benefits and \$3 billion more in emergency grants for some people thrown out of work by the Sept. 11 terrorist attacks.

But the expanded unemployment benefits would be available only in the hardest-hit states, and other proposals rely on existing programs and previously appropriated funds. Congressional Democrats said the package falls short of what is needed to help the growing ranks of unemployed.

"I think we've got to go farther,"

said Senate Majority Leader Tom Daschle, D-S.D.

Bush's aid package for the unemployed is one of three main components of the economic stimulus plan he wants Congress to approve. The other two, which administration officials are shaping, will feature tax cuts designed to give individuals more money to spend and to provide incentives for businesses to invest.

The president outlined his worker assistance package amid new signs that the Sept. 11 attacks are contributing to mounting job losses as the U.S. economy succumbs to what increasingly looks and feels like a recession.

The number of workers filing new applications for unemployment benefits rose to a nine-year high last week, the Labor Department reported Thursday. The number of initial claims jumped 71,000 to 528,000,

the highest level since mid-1992.

The figures reflect a wave of layoffs by U.S. airlines and other industries directly affected by the terrorist strikes.

Since Sept. 11, 200,807 job cuts have been announced, according to the outplacement consulting company of Challenger, Gray & Christmas. Layoff announcements totaled 248,332 for the entire month, a record.

The president outlined a worker assistance plan consisting of two main elements:

—A 13-week extension of unemployment benefits, currently limited to 26 weeks, for workers who lose their jobs after Sept. 11

—An additional \$3 billion for "national emergency grants" to help cover the cost of health insurance for displaced workers and provide income to those who don't qualify for unemployment benefits.

WEATHER

A Cold Shower

By Robert Korty

STAFF METEOROLOGIST

During autumn synoptic weather maps often feature strong fronts pushing southward through the middle latitudes. Today is no exception, as a front lies across the Ohio River Valley and Southern Plains states. Ahead of this front, southwesterly winds have ushered warm air up the entire Atlantic seaboard. High temperatures reached the lower and middle 80s F (27-30° C) on Thursday in Washington, Philadelphia, New York, and Boston. Behind the front, a Canadian air mass will move across the eastern half of the country, making for a chilly weekend.

High pressure will continue to move offshore today, while southwesterly winds on the western side of the system will advect warm air into New England again today. By Saturday afternoon, the cold front to our west should have pushed through Boston, bringing cloudy skies and a chance for showers. Temperatures will drop precipitously through Sunday as brisk northwesterly winds funnel much cooler air into the region.

The forecast...

Today: Mostly sunny; high 75° F (24° C).

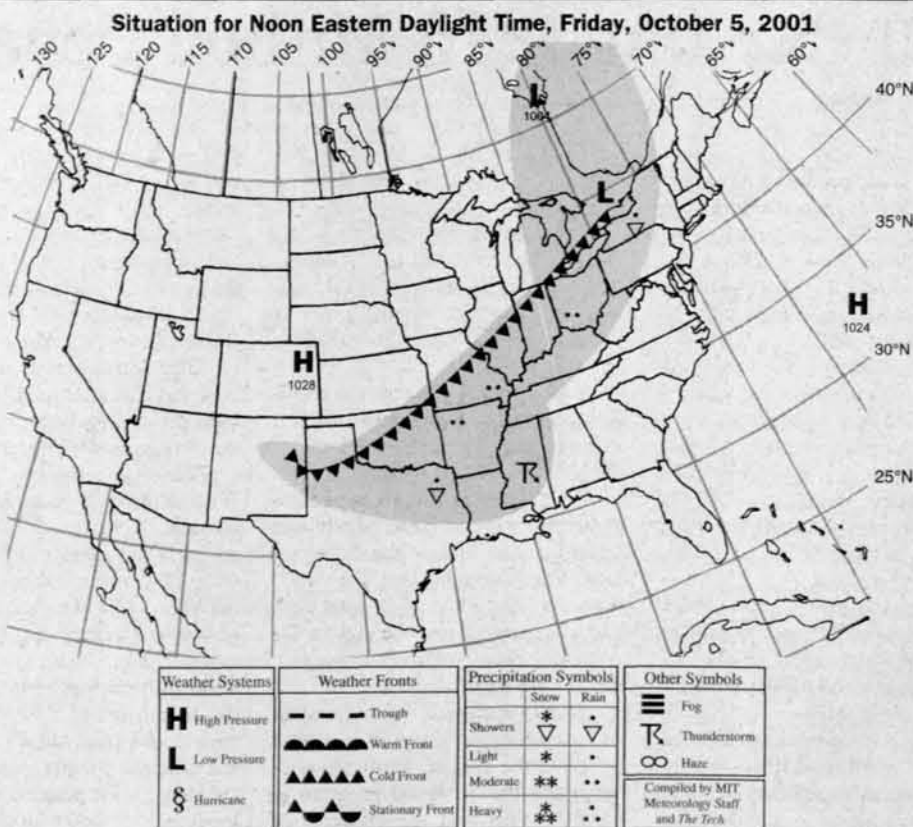
Tonight: Partly cloudy with southwesterly winds. Low 62° F (17° C).

Saturday: Mostly cloudy with showers; windy. High of 71° F (22° C).

Saturday night: Turning much cooler; low 42° F (6° C).

Sunday: Brisk. Partly sunny and breezy. High 52° F (11° C).

High temperatures will be held between 55° F and 62° F (13-17° C) during the first half of next week.



Palestinian Gunman Attacks, Kills Several Israeli Citizens

By Tracy Wilkinson
LOS ANGELES TIMES

JERUSALEM

Disguised as an Israeli soldier and armed with an assault rifle, a Palestinian fired helter-skelter into a crowded bus station in the central town of Afula on Thursday, killing three Israelis and wounding at least 13.

The assailant was shot dead by police, in the latest spasm of violence escalating tensions in the region.

The attack prompted an angry rebuke from Israeli Prime Minister Ariel Sharon — who directed as much of his wrath at the United States as at the Palestinians. Sharon accused Washington of sacrificing Israel in the quest to build an anti-terrorism alliance including Arab states.

Sharon's unusually harsh condemnation of U.S. policies came during a late-night news conference called to comment on the crash into the Black Sea of a Russian airliner carrying dozens of Israelis. He

expressed sorrow over the loss of life, then shifted to the Afula shooting.

He accused the Palestinians of repeatedly violating a cease-fire declared last month — a charge that Palestinians also level against Israel — and said Western democracies should stop pressuring Israel to negotiate "under fire" just because it would satisfy Arab states.

"Do not try to appease the Arabs at our expense," Sharon said.

Keen to push the Middle East conflict to the back burner, the Bush administration has been urging Sharon's government to open talks with Palestinian Authority President Yasser Arafat and to end what it called "provocative" actions such as incursions into Palestinian territory. The United States also demanded that Arafat work to stop terrorism by Islamic extremists.

But the Israeli government does not want to negotiate while Palestinians are still shooting and bombs are still going off. The United States wants peace in the region, but

Sharon fears it would be in exchange for concessions he is not prepared to make.

Sharon compared the West's actions today with those of European democracies before World War II, when the Sudetenland region of Czechoslovakia was sacrificed to appease Adolf Hitler.

"This is unacceptable to us. Israel will not be Czechoslovakia. Israel will fight terrorism."

Sharon confirmed that Israel has suspended its part of a cease-fire declared last month, following Palestinian violations.

Israel will not ease the punishing closures that have blockaded Palestinian towns and will revert to a widely condemned policy of hunting and killing key Palestinian militants.

In the eight days since Arafat and Israeli Foreign Minister Shimon Peres agreed to formalize a truce, violence has been on the rise. With Thursday's attack, 28 Palestinians and five Israelis have been killed in that period.

Bush and Congressional Leaders Promise to Help Revive Economy

By James Toedtman
NEWSDAY

WASHINGTON

President Bush and congressional leaders pledged Wednesday to develop a \$50 billion to \$75 billion package of tax cuts and new spending to jump-start the U.S. economy, which has stalled since the Sept. 11 terrorist attacks.

At a meeting with New York business leaders, Bush announced his support for a plan that is aimed at encouraging business and consumer spending while providing assistance to those who need health and financial benefits after the attacks that left nearly 6,000 dead. Congressional Democrats said they wanted to limit the cost to \$50 billion.

"We're coming together on a plan that I believe needs to get passed as quickly as possible," Bush said. "We've now got a reason to do ... what it takes to make sure this economy gets growing so people can find work."

Congressional leaders said they were optimistic the package could be produced, and they continued their own assessment of the economy in a private meeting with Federal Reserve Chairman Alan Greenspan and former Treasury

Secretary Robert Rubin.

The bipartisan glow that has cloaked almost all Washington discussions since the Sept. 11 attacks persisted Wednesday as the Senate Finance Committee began discussing specific options with Treasury Secretary Paul O'Neill.

The stimulus plan outlined by Bush was essentially the same as the plan being discussed by Senate Majority Leader Tom Daschle, D-S.D., and Senate Finance Committee Chairman Max Baucus, D-Mont.

The package's three components include:

—Tax incentives for consumers — a payroll-tax rebate or advancing to next year the marginal rate cuts now set for 2004.

—Tax incentives for business — accelerating depreciation schedules, calculating a portion of new investments as expenses that are not taxed or creating investment tax credits.

—Aid for workers and businesses affected by the attacks — extending unemployment benefits or creating job training funds.

O'Neill, who said he hoped final agreement could be reached in four weeks, also proposed a new system of "national emergency grants" for states to use as they wished. He did not mention a price tag.

While economists as well as politicians have questioned the adequacy of a \$60 billion stimulant in a \$10 trillion economy that most believe has slipped into a recession, Bush and the congressional leaders took their lead from Greenspan, who has urged them to take their time and to limit any economic stimulus effort to \$100 billion total, 1 percent of the gross domestic product. By comparison, Congress earlier this year approved \$38 billion in tax rebates that have been delivered.

O'Neill faced the sharpest criticism from conservative Republican senators who think the administration should concentrate on tax breaks, not on extra spending. Sen. Don Nickles, R-Okla., criticized the administration for even considering a minimum-wage increase, which O'Neill said remained an option.

Already, Congress has approved \$40 billion for cleanup and \$15 billion in aid and loan guarantees for the aviation industry.

The stock market reacted positively to the idea of a stimulus package, with the Dow Jones industrial average closing above 9,000 for the first time since the attacks.

The list of new proposals, though, threatens to explode.

Drug Company Agrees to Plead Guilty; Will Pay Out \$875 Million Penalty

By Denise Gellene
LOS ANGELES TIMES

A government crackdown on Medicare fraud produced its biggest catch Wednesday when a drug company agreed to pay \$875 million and plead guilty to criminal charges that it engaged in a kickback scheme with doctors in marketing its prostate cancer drug.

The penalties levied on TAP Pharmaceuticals, a joint venture between Abbott Laboratories and Takeda Pharmaceuticals of Japan, are the largest ever against a health care company. The government said criminal fraud against Medicare and Medicaid in the TAP case cost taxpayers \$145 million.

But the settlement does not end the investigation of TAP. Additional indictments of former TAP employees and doctors who participated in the fraud could follow.

The agreement is part of a broader probe of alleged drug-pricing fraud. Prosecutors have asked several large drugmakers to turn over docu-

ments relating to Medicare pricing.

The crackdown is taking place amid a general frustration with prescription drug prices. Spending on drugs rose 14.9 percent in 2000 for a variety of reasons beyond fraud. But the government said Wednesday's action signals its resolve to wipe out Medicare ripoffs, which is believed to cost up to \$100 billion annually.

TAP's penalty exceeds the previous record fine of \$840 million imposed last year on hospital operator HCA Healthcare Corp.

TAP, based in Illinois, agreed to plead guilty to one count of criminal conspiracy to violate the Prescription Drug Marketing Act, for which it paid \$290 million of its total fine. The government said the size of the criminal fine is also a record in health care fraud.

TAP also agreed to settle without admitting guilt civil charges that it bilked the federal Medicare program and the Medicaid program in all 50 states and the District of

Columbia.

TAP President Thomas Watkins said the company regrets the actions that led to the criminal plea and has taken steps to prevent them in the future. But the company settled the civil allegations, and agreed to pay the record-setting fine, to avoid having its drugs dropped from the federal Medicare program, he said.

"The settlement is obviously a very large number and the size has been driven to a large degree by the threat of exclusion," Watson said.

The indictment, unsealed Wednesday in federal court in Boston, details a conspiracy in which TAP sales people used an array of freebies, ranging from free ski trips to VCRs, to entice urologists to prescribe Lupron, a prostate cancer drug with sales of about \$800 million last year. As part of the conspiracy, TAP employees gave doctors free samples of Lupron knowing the doctors would prescribe the samples for patients and fraudulently bill Medicare for them.

Fox Pays Bush Another Visit

LOS ANGELES TIMES

WASHINGTON

President Bush and Mexican President Vicente Fox on Thursday stressed the need for continued cooperation on border security, but some immigration experts say they're pessimistic that the two can make any headway while the U.S. administration's attention is focused on terrorism.

Fox made the brief, hastily scheduled visit to the White House to demonstrate support for the Bush administration's anti-terrorism campaign.

Coming three weeks after the Sept. 11 attacks, however, the visit underscored how much the climate has changed since Fox was here four weeks ago for a state visit that put the two nations' differences over immigration into sharp focus.

Guest-worker programs, legalization of undocumented immigrants, amnesty for immigrants and open borders have been pushed down significantly on the Bush administration's agenda, replaced by measures that include restricting terrorists' access to the United States.

If any progress can be made on immigration issues now, said Cecilia Munoz, vice president for policy at the Latino advocacy group National Council of La Raza, it probably would deal with tightening restrictions on the visas that allow tourists and students to enter the United States.

Firestone Agrees to Replace 3.5 Million Truck Tires

THE WASHINGTON POST

WASHINGTON

Bridgestone/Firestone Inc. agreed Thursday to replace 3.5 million more tires, ending a 17-month high-profile government investigation that tarnished the reputation and hurt the bottom line of both Firestone and Ford Motor Co., whose popular Explorer sport utility vehicles were equipped with most of the recalled tires.

The National Highway Traffic Safety Administration announced the recall action, involving 15- and 16-inch Wilderness AT tires made before May 1998, almost 14 months after Firestone agreed to an initial recall of 6.5 million tires. Failures of Firestone tires have been linked to accidents, mostly on Explorers, that have caused 271 deaths and more than 700 injuries.

The long-running probe led to changes in auto safety laws after several contentious congressional hearings, where executives of the two companies blamed each other's products for the accidents. It also cost Bridgestone Corp., Firestone's Japanese parent, more than \$1 billion, and Ford more than \$3 billion because of its decision to replace 13 million Firestone tires last spring.

In addition, it precipitated the breakup of a nearly 100-year-old corporate marriage that dated back to the dawn of the auto industry.

Each company still faces a rash of personal injury lawsuits and a class-action suit.

Six Die in Greyhound Bus Crash After Attack on Driver

THE WASHINGTON POST

MANCHESTER

A passenger on a Greyhound bus sliced the driver's throat and grabbed the steering wheel early Wednesday morning, crashing the bus and killing six people. Fearful of a terrorist attack, Greyhound halted its entire fleet for several hours, resuming business after the FBI concluded that the assault was the random act of a troubled man.

The attacker — who died in the crash — boarded the Orlando-bound bus the day before in Chicago, gave no hint of his intentions and acted alone about 4 a.m., said R. Joe Clark, chief of the FBI's Knoxville field office. Clark said the incident was "not an act of terrorism" and bore no connection to the Sept. 11 assaults on the Pentagon and the World Trade Center.

But the response to the incident reflected the mood of a nation on edge.

State and federal investigators, on alert for a second wave of terrorist attacks, raced to the remote stretch of Interstate 24 in Tennessee when a local 911 operator received the call at 4:13 a.m. Greyhound President Craig Lentzch ordered all company buses off the roads for the first time in Greyhound's history.

Lentzch said he acted from a sense of caution. "The world has changed in recent weeks," he told reporters. After consulting the FBI and the company's unions, he ordered the resumption of business by early afternoon. He said security was being increased; passengers in San Francisco, Dallas and Orlando were checked with hand-held metal detectors.

Scientists Say They've Decoded 'Black Death' Gene

NEWSDAY

Researchers have deciphered the genetic code for one of the most notorious killers in human history, and one that could again pose a widespread threat in the form of biological terrorism.

Yersinia pestis, the bacterial agent of medieval Europe's Black Death, has revealed some surprising secrets to a team of British scientists who reported on the organism's complete DNA sequence Thursday in the journal Nature. Researchers say the completed sequence could eventually serve as a yardstick for other naturally-evolving or bio-engineered forms of the plague and provide targets for improved drug design.

"It's still an entirely natural threat to human health as well as the other potential angles," said co-author Julian Parkhill, in an allusion to the threat of bioterrorism. But Parkhill, project manager at the Sanger Centre in Britain, said the genetic sequence contains "every drug target and every possible vaccine target so you can start to think about rational drug design," he said. "There's no question that it will help."

Although incidence of the plague has declined dramatically since the early part of the 20th century, the World Health Organization reports several thousand cases every year.

OPINION



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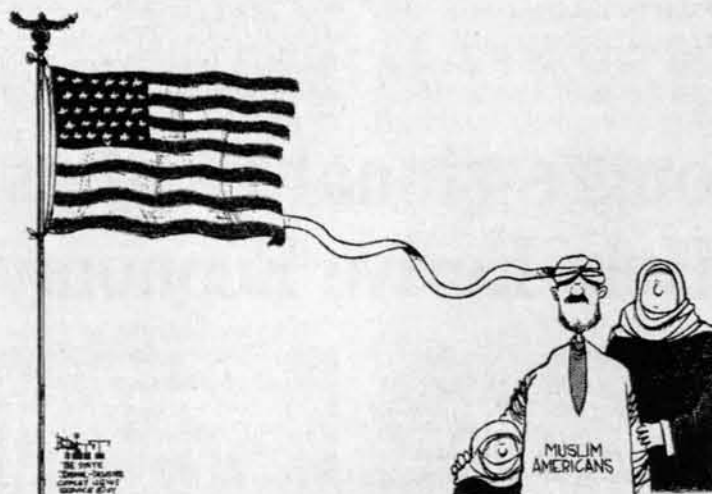
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CUT FROM THE SAME CLOTH



Sept. 25, 2001

Letters To The Editor

Minding Your Pints and Quarts

Re: "P's and Q's" [October 2]:

Besides this article missing the point of etiquette — which as a superficial act is nearly worthless, but as a reflection of love and respect for one another is very much worthwhile — I think Roy Esaki has an incorrect origin for the phrase "mind your p's and q's." Though there are apparently competing hypotheses as to its origin, most of the credible sources I've found say that it comes from keeping bar tabs in Pints and Quarts back in English pubs.

Adrian Bischoff '03

Finding "Something Lost"

My first reaction to the piece "Something Lost, Something Gained?" by Ken Nesmith [October 2] was that the author should take a cold shower. "orgasm of mourning?" "The twin towers in New York as phallic symbols?" Talking about one of the targets of the terrorist attack that killed thousands and the resulting grief in such oversexed terms strikes me as somewhat inappropriate. However, if this article had only been an example of how hormones mess with a young writer's ability to express himself, it'd be briefly annoying before turning the page to read the funnies.

No, what makes this op-ed piece offensive enough to warrant a response is what comes down the page. "Why, then, was there

a sudden and dramatic reaction to a comparatively small loss of life?" Mr. Nesmith asks, if "35,000 children have starved to death on every day since September 11." Maybe, I dare to submit, because it happened to fellow people in this country, with whom, even though we might not have known any of them personally, we shared values, hopes, and ideals. Is it not natural to be affected more by what happens to people closer to us? Mr. Nesmith misses the point: it is precisely because we do share these values, and because we are willing to protect them, that our country is targeted (these values also, by the way, have — consistently rather than "sudden[ly] and dramatic[ly]" — made Americans the world leaders in donations to charities, giving a total of \$175 billion last year alone). To belittle the death of 6,000 in the terrorist attacks as a "comparatively small loss of life" is a slap in the face of those grieving over what they and this country lost on September 11.

Maximilian Riesenhuber PhD '00

Ken Nesmith's most recent column, "Something Lost, Something Gained," [October 2] contains far too many obvious naïve assertions and ridiculous condemnations of America for me to address, so I will focus on his only serious argument, that we Americans are wrong to intensely mourn our dead from the September 11 terrorist attack and not equally intensely mourn the innocent children around the world who have died of starvation.

Who are these children and why did they die? You will not find any famine among the democracies of this world. All the starving

people are ruled by corrupt, tyrannical governments. Did they die because we did not make enough food available? No, they died because we couldn't get food to them because their governments take most of the aid we give and use it for things like weapons to prop up their police states and luxuries to satiate their leaders' greed (think Saddam's palaces and chemical weapons plants). What could we have done to prevent these innocent children's deaths? Nothing short of military occupation of every corrupt regime in the world would suffice. Are we capable of doing this? No. Would the common people of these corrupt regimes welcome our authority for the good of their children? No, they have national pride, just like us.

It is not our duty to rid the world of evil. Our duty is to protect our own. But we are righteous: Out of our generosity we send wheat to Afghanistan even while its government support terrorists groups that have promised to destroy us. Out of the goodness of our hearts we allow Iraq to sell some of its oil, in the hope that just a tiny fraction of the proceeds will go the people who need it and not to Iraq's military. These are just two examples; out of our benevolence we send aid to every corner of the world, even to our sworn enemies. And from World War II, through the Cold War, to this new war against terrorism, we have sacrificed and will sacrifice the lives of our young men to seriously reduce the evil in the world, hoping that as a result more people might have a chance to experience freedom, which is the key to prosperity. We are far more righteous than blindly anti-American zealots like Nesmith think.

Dave Milovich '04

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Religion is to Blame

Matt Craighead

One of the loudest screams heard in the aftermath of September 11 has been, "Don't blame Islam!" We've heard it from our President: "[Islam's] teachings are good and peaceful, and those who commit evil in the name of Allah blaspheme the name of Allah." And we've heard it from the diversity police, who warn us that we shouldn't blame all Arabs or all Muslims for the actions of a few (as if we didn't already realize that).

But this view of Islam is just not true — it is partially to blame. Our President isn't telling us this because he, like many Americans, suffers from a deep psychological evasion. He evades because the indictment is not limited to Islam. It condemns all religions everywhere, his own Christianity included.

The essence of religion is faith in the supernatural and the unknowable. Faith, of course, is the opposite of reason. Reason demands that data and the vigorous application of logic back up every assertion. Faith works in the opposite fashion. The faithful believe in spite of the knowledge that there is no sense data that backs up their belief; no logic that can prove it.

Most religions have a certain set of doctrines taken on faith. For example, Islam requires belief in a God (Allah) who sent a prophet (Muhammad) and divinely revealed a sacred text (the Koran). For Christianity, the names change, but the idea does not.

Whenever a man accepts a false assertion on faith, the consequences ripple through his entire life. Eventually, unless the false assertion is totally irrelevant, it will manifest itself in a contradiction. For example, if he believes that the Bible is literally accurate in its every word, he will eventually discover — either from a contradiction within the Bible itself or from a contradiction between it and our world — that it is not.

Whenever you discover a contradiction, you have two options. You can either ignore

it or you can check your premises. A man who faces a contradiction between his faith and reality has a simple choice: discard faith or discard reality. To the extent he discards his faith, he becomes a *de facto* atheist and can live a normal, if confused, life. To the extent that he discards reality instead, he becomes a religious fanatic, inevitably destroying himself.

The living proof of the fate of these fanatics can be seen in abortion-clinic bombers and in the letter that the September 11 terrorists received shortly before they departed on their mission of death.

The abortion-clinic bomber believes, according to his Christian faith, that abortion is murder and an unspeakable crime against God. It is true that the Bible condemns

killing; but in his view, he is not the killer, the "abortionists" are. After all, the Bible convinced him that a lump of flesh is equivalent to a human being, that removing that lump of flesh is equivalent to murder, and that he ought to eliminate this evil. His views are not far from the mainstream of the despicable "religious right"; witness Pat

Robertson and Jerry Farwell blaming the homosexuals, the "abortionists," and the ACLU for bringing this attack upon us.

The minds of the September 11 hijackers were an equal mess, as the terrorists' letter reveals (you can find the letter's translated text online). The letter is nothing if not pious; it is full of talk about how one must repeatedly say "there is no God but God" (which supposedly is a wonderful phrase because its Arabic letters have no dots in them), and say supplications of place and travel, and have complete faith in Allah and his divine plan. It reminds the terrorists that "the women of paradise are waiting"; that they should not kill in revenge, but solely for the sake of God; that they should not fear death, for they will be accorded the highest status in heaven, that of martyrs.

According to many pundits, Islam is a peaceful religion, and these terrorists are merely "fringe elements" or "extremists"

who misinterpret it. The pundits, who have not read the Koran, are wrong. It is not difficult to find examples disproving their claim, such as verse 9.5: "So when the sacred months have passed away, then slay the idolaters wherever you find them, and take them captives and besiege them and lie in wait for them in every ambush..."

Of course, Islam is a dangerous religion for many other reasons, such as the concept of jihad and the explicit belief in fundamentalist dictatorship. Yet all of these problems are simply instances of the root problem: faith itself. Belief in any sacred religious text will undoubtedly lead to evil; it just so happens that the Koran is an unusually dangerous text. Faith leads to ruin in all areas of one's life by eliminating the capacity for independent judgment.

Faith in metaphysics means the world is fundamentally unknowable, controlled by a higher power beyond the comprehension of man; man is controlled by destiny and not by his own free will.

Faith in epistemology means throw logic to the wind; put your trust in a sacred text; shut your eyes and pray that a nonexistent God will grant you knowledge you never took the trouble to seek; and when he says nothing, rely on your feelings, intuitions, friends, the will of the majority, anything but your independent judgment.

Faith in ethics means give away all your possessions and devote yourself to a life of service and self-sacrifice, since you are irrelevant in comparison to the designs of God; seek forgiveness for your original sin by prostrating yourself and seeking no values of your own; and since you have already discarded your judgment, do whatever your religious leader tells you, even killing millions for the reason that they do not believe.

And faith in politics means ban abortion, sex without procreation, the pursuit of profit; discard the Constitution and the rule of law as worthless, and put the Bible in its place; institute an aristocratic priesthood to quell immorality; and stone to death whosoever even thinks of violating their decree, for theirs is the word of God.

The living proof of all this can be found in modern-day Afghanistan and Iran; and to the extent that the people of the United States accept religion, they will find themselves on that same road, all the way back to the Middle Ages.

The Real Implications Of the New Dining Plan

Dan Tortorice

To the dismay of students across campus, MIT has instituted a mandatory dining plan. The plan requires undergraduate students living in dormitories to purchase a meal plan for a substantial amount of money at the beginning of the term. Many have debated the merits of this plan, but will the new plan bring better food? Will the new plan restrict student choice too much? Will lunch at Walker begin to be bearable? It seems that administrators feel the mandatory dining plan will be beneficial to the community, while students in general oppose it. This article isn't about the merits of the plan directly, but why the plan is problematic, even if it brings good results.

Those who support the plan claim it will bring better food to MIT. They claim that the declining balance plan does not provide dining contractors enough revenue to work with. As a result the contractors cut back on quality, raise prices, and reduce dining options. The end product is the terrible food we must endure at MIT. However, instituting a mandatory minimum dining plan will create a pool of money, which will provide enough revenue that dining contractors will be able to produce quality food at an affordable price. They will give us a plethora of dining options, and our every culinary desire will be satiated. Well, not quite, but food quality should go up.

If the administration really believes this then they should realize that the plan is unfair. It is rare that one can make everyone better off without hurting someone. In this case we are making a subset of the population, undergraduates in dormitories, worse off by taking more money from them and limiting their dining options. But this is unfair, because the whole MIT community will benefit from better dining services. Staff, grad students, people who live in FSILGs will all benefit without paying anything. Why should I have to pay to make someone else's meal better?

Now I'm sure that there are some naysayers in the administration who will say that the undergraduate community will benefit from the changes, so they should have to pay for it. But this, of course, does not address the point. Yes, undergraduates will benefit and we are paying for it, but other people will benefit without paying for it. There are only two fair solutions to this problem. The first is to allow individuals who purchase the dining plan to pay a lower price for the food they buy. That way, everyone who benefits from the change pays. Undergrads pay through the mandatory dining plan, while staff and the like pay through the regular meal price. The second possible fix to this problem would be to tax people who don't buy the meal plan, and give money to those who do. But I don't see MIT doing that.

Another problem in the logic of the administrators is not really a problem, per se. It is merely a case of their not seeing the obvious implication of their reasoning. They believe that the community will benefit from a mandatory meal plan. That students will benefit from having meals together in a commons style setting, which may be true. But as we all know dining halls in McCormick and MacGregor shut down when MIT went to a declining balance plan precisely because MIT students chose not to eat in a commons style setting. To say that MIT students will benefit from a commons style dining system is to say that MIT students will benefit from a system that they would not naturally choose.

A lot can be said about the notion that people, when left free to choose, will choose the best system. So maybe MIT students find it better for their dinner to be a 11 p.m. sandwich at Laverde's after their code finally compiles than a regular 6 p.m. dinner where they sit down with the people they live with. Then again, maybe that lifestyle is unhealthy, and someone should step in and stop us. This seems to be the administration's logic. But this undoubtedly means that the MIT administration sees itself in a paternalistic role, and that we as students need to be pushed into choosing what is best, for we can not figure that out on our own. Next time someone from the administration tells us that the new dining plan will create better quality food and more MIT community, remember that this necessarily means that MIT undergraduates will be forced to choose another lifestyle, and in the process, pay for other people's lunch.

Belief in any sacred religious text will undoubtedly lead to evil. Faith leads to ruin in all areas of one's life by eliminating the capacity for independent judgment.

Management Shenanigans

Guest Column
Bukola Afolayan

I recently saw a movie titled "Lumumba" with a friend at the Kendall cinema. As I watched, I was moved to the point of tears. It is a movie about the independence champion of Congo (Zaire), Patrice Lumumba, who became Prime Minister after convincing the Belgians to leave Congo. His regime, however, was undermined and short-lived because of interference in the country by the Belgians, the CIA and the selfish desire of a former colleague named Joseph Mobutu Sese Seko. Anyone who is familiar with politics of the Congo knows the devastation the country went through under the dictatorial rule of Mobutu, who was supported by the Americans and later the French government. One only has to read the news to know that this devastation is not over, but continues until today as a war is being waged, ravaging the natural resources of the country and burying the people in poverty and despair.

Watching the movie reminded me of the continuous vicious cycle of bloodshed in parts of East Africa and other countries in Africa. There is a saying that goes something like, "He who lives by the sword will surely die by the sword." If this is true, we are all doomed, for we are all offspring of violence and the sword.

Before you label me an overtly pessimistic individual, I should defend myself and say that I am one of the most optimistic people I know. I strongly believe in a God who loves the world and has a better rosy future for us. However, this is not about the God I believe

in, but the human population that I have lost all hope in. I should confess that I am a hypocrite. If I were not, I would have lost all hope for mankind a long time ago. However I bought into the "management shenanigan."

To put some meaning to my ranting, let me make some illustrations. History has shown us that we all have a bloody and chaotic past. There were (and still are) injustices committed by various groups in the form of slavery, genocide, colonialism, autocratic rule, holy wars, etc. History has also shown us that the oppressed group never forgets the injustices done to it; never mind that the generations who suffered might already be dead. The sense and need for revenge have led to much bloodshed in the past century. The violence just never ends; it is a vicious circle. If this is so clear, how come many people choose to be optimists? Well, I am neither a political scientist nor a psychologist, but I would like to propose two hypotheses. One would be that the optimists live in countries that enjoy fruits gained by oppressing some other group. Therefore, most optimists live in the west and tend to remain optimists as long as they live in comfort.

My other hypothesis is what I referred to as the "management shenanigan." The management shenanigan is the ability of our leaders and governments to manage problems we face and deceive us into believing everything is fine and spiffy with the world. They do not solve these problems; they just manage them. Part of the shenanigan process is the United Nations, NATO, the Middle East peace process, various tribunals and courts of justices, and development aids. With all of these institutions and their incredible media exposure, I could be fooled

into thinking there is hope for peace and an end to the circle of death and violence that has plagued our history. Alas, it is nothing but management, and there is only so much management one can do before the problems break out in the open. Wall Street did a good job of demonstrating this with the whole dotcom fiasco.

We are a doomed species living on borrowed time. We will not stop until we destroy one another. Just look at the Israeli-Palestine conflict, the North Ireland impasse, the recent tragedy in NYC and DC; the

The management shenanigan is the ability of our leaders and governments to manage problems we face and deceive us into believing everything is fine and spiffy with the world.

whole shenanigan is falling apart at its seams. Maybe it is because the managers are changing in the current age. Am I a pessimist? No, I am just a realist when it comes to thinking about the actions of mankind. I have put my optimism in a more spiritual quest, and I suggest you find something that is worth putting your optimism in, because mankind will not fail to show you that your trust was placed wrongly in the end.

Bukola Afolayan is a graduate student in the department of Nuclear Engineering.

Do you have an opinion on the mandatory meal plan?

Let us know.

<letters@the-tech.mit.edu>

THE ARTS

FILM REVIEW★★★

Stiller Killer as Model Extraordinaire

'Zoolander,' Despite Foregoing Indications, Elicits New Level of Laughter

By Nick Sidelnik

Directed by Ben Stiller
Written by Ben Stiller, Drake Sather, and John Hamburg
Starring Ben Stiller, Owen Wilson, Will Ferrell, Christine Taylor, Milla Jovovich, Jerry Stiller and Jon Voight

The new film *Zoolander* holds the male fashion industry responsible for every major assassination in the last 200 years. Why male models? The reasons are simple. Male models are in excellent shape year round. Secondly, because of their looks, fame, and innate ability to hit it off with bouncers, they can gain access to places the average person can't. But, most importantly, male models do what they're told.

Now the male fashion industry heads need a new assassin. Someone so empty-headed, completely clueless, and devilishly handsome that he can be brainwashed to do their bidding.

Enter Derek Zoolander (Ben Stiller), a character created for the 1996 VH1 Fashion Awards.

Zoolander is a shallow, self-obsessed male model who has lost his #1 model status to Hansel (Owen Wilson), the new face of fashion. As his modeling career appears to be winding down, *Zoolander* is recruited by the fashion designer Mugatu (Will Ferrell) to model his new line of clothes, *Derelict*. *Derelict*, however, is just a front for the fashion industry's new conspiracy, the assassination of the president of Malaysia. Slowly but surely, *Zoolander*, with the help of fashion reporter Matilda, begins to discover the conspiracy and the rea-

son why no male models live past the age of 30.

Zoolander is a satire of the fashion industry. It addresses issues like child labor in a lighthearted manner, and does a great job poking fun at a stereotypically clueless fashion model who has nothing above his neck but a pretty face. Mock violence abounds; the movie has everything from break-dance-fighting and Fashion Walk-Offs in the manner of street fights, to the Razor Scooter-touting Hansel and playful gasoline brawls.

The antics of the dim-witted models create hilarious situations one has to see to believe. Derek draws laughs with awkward moments spawned by his cluelessness and a mastery of the English language comparable to that of President George W. Bush. Hilarious moments arise as Derek and Hansel try to remove

files from "inside" a computer, to the familiar theme of 2001: *A Space Odyssey*.

The cast gives excellent comedic performances. Stiller wrote the role of Derek Zoolander in such a way that it couldn't be filled by anyone other than himself. He delivers an animated, acrobatic performance, pouting one moment and doing kung fu flips down the runway the next.

Ferrell, as Mugatu the modern fashion designer, gives another great performance. His outrageous hair and ridiculous modern style are very amusing. As Hansel, Wilson becomes a laid-back, hippie adventurer. He is a great match with Stiller, and the two of them play right off one another perfectly.

Zoolander is a great night's entertainment. It's not Oscar material, but it's sure to bring many laughs.



Katinka (Milla Jovovich) and Derek Zoolander (Ben Stiller) meet up with designer Mugatu (Will Ferrell) in the film *Zoolander*.

MUSIC REVIEW

'Good Times' It Is

"Because I Got High" — Buy the Single, Not the Album

By Melissa Kosinski-Collins

Ever since its nation-wide release on the *Jay and Silent Bob Strike Back* soundtrack, Afroman's break-out single "Because I Got High" has attacked the pop/rock charts all over the United States. Becoming the most requested song for radio stations in such high-maintenance audience regions as New York, Los Angeles, and San Francisco, "Because I Got High" has ultimately been the surprise single of the summer.

Sounding somewhat like a perverse public service announcement condemning the use of drugs only after explaining the consequences of extreme and excessive use, "Because I Got High" is hoped by its author Afroman, Joseph Foreman, to "tell the truth and to set you and I free."

The song itself lacks true musical value in regards to instrumental or harmonic flair, but does provide the listener with a catchy sing along-type chorus and a somewhat humorous view of the life of someone unable to escape the walls of a marijuana-dependent existence. Although many different voices seem to drift in and out both taunting and condescending the singer, Afroman is the lone vocalist as well as the solo musician. "Because I Got High" is just one of 10 tracks on Afroman's first album entitled *The Good Times*, which he co-produced with Tim Ramenofsky.

Despite the almost instantaneous success of Afroman's "Because I Got High" single, the rest of the album is ultimately a disappointment. The underlying theme of just about every track on the album revolves around sex and/or drugs and alcohol.

The songs themselves are so cluttered with gratuitous profanities not even remotely essential to the topic at hand that it will be amazing if any of the raps will find their way onto a mainstream play list like their "Because I Got High" precursor. Songs like "She Won't Let Me F**k," "Let's All Get Drunk," and "Crazy Rap" are almost as undynamic as their titles, dealing with such menial topics as the sexual exploits of the singer and his controversial travels around the country.

The tracks "Palmdale" and "Mississippi" are lyrically more enlightening as they reminisce through the childhood of the singer, providing a unique perspective into the life and trials of an African-American child growing-up in a primarily overindulgent Caucasian world. Afroman more than likely drew upon his own experiences to compose these two works. He grew-up in a suburb of Los Angeles called East Palmdale, and moved to Hattiesburg, Mississippi after he became unhappy with life in California. Afroman credits Too Short, Big Daddy Kane, and 2 Live Crew as influential artists early in his career, and both "Palmdale" and "Mississippi" demonstrate this connection with their bold truth mentality.

The most surprising jewel in the album is the song "Hush." A break from the true rap genre, this track has a gospel-like quality that both awes and inspires the listener. The song stresses the importance of maintaining a connection between the trials of everyday life with a spiritual link. The creative incorporation of rap and soul is an entertaining, and a refreshing break from the rest of *The Good Times* album, shining light onto Afroman's potential as an artist as opposed to a one-hit fluke.

If you just like the song "Because I Got High" and are unable to just download the MP3, my advice is to buy the single. Afroman's *The Good Times* is the first attempt of an artist who needs to mature before he can truly become successful. Songs like "Palmdale" and "Hush" show that Afroman has the potential to excel in the pop/rock and rap worlds, but he needs to move beyond the teenager mentality before this is possible.

The album possesses a fun atmosphere that is intriguing the first time around, but all-too-soon loses its luster. *The Good Times* is definitely an album that is an asset for any party line-up based on its easy-to-remember lyrics and topic choice, but for everyday listening the album lacks depth and musical merit.

RESTAURANT REVIEW

Johnny's Luncheonette

A Delectable Breakfast Joint for The A.M. Crowd

By Derek Tang

Johnny's Luncheonette
1105 Massachusetts Ave.
Brighton, MA 02135
(617) 495-0055

Breakfast. It tastes so good. Even the word is delicious — all it takes is one mention and I simply mist over and drift blissfully into a dreamland of sizzling eggs and syrup dribbling off of waffles.

But oh, breakfast, why must you be so early in the morning? How many times have you lured us out to McDonald's only to taunt us cruelly as the counter guy whipped the menu back before our eyes? We students never had a chance.

At least there are still a few spots in this post-IHOP city, like Johnny's Luncheonette, that understand how we feel. Don't be fooled by the word "lunch"; Johnny's boasts an expansive breakfast menu with, thank God, no trace of the words "Served Until." Intrigued but wary of another trick, three of the more adventurous among us made our way out last Saturday to give Johnny's, located on Mass. Ave. near Harvard Square, the old college try.

Doors open at 7:30 a.m. but the crowd at Johnny's is mostly the four-kid family set until around 11, when the students start to stream in. As you might guess from the name, the decor aims for a 50's diner feel that makes for a cheerful, pleasantly noising eating environment.

The breakfast portion of the menu (which extends the retro theme with dish names like Wolfie's and Rascal House) works overtime to cater to all tastes — aside from the standard eggs and pancakes you'll find items as varied as lox, collard greens and

breakfast burritos. There are also a few in-house creations, like the cereal-and-nut-coated Crunchy French Toast. Portions are generous, and the basic ingredients are offered up in any combination you can think of, so you won't find yourself ordering a side to get what you want.

One of the more interesting offerings was Waban's Frittata, an open-faced bacon omelet topped with mashed potatoes, cheese and scallions that smelled incredible on the plate, but was on the heavy side when actually eaten. On the other hand, the day's special, which was steak and eggs, was presented just the way it's meant to be — tasty and dripping with greasy goodness.

As Johnny's prides itself on making its food fresh, the potatoes and yams were hand cut and the sausage homemade. ("Not like Applebee's," the host assured us.) Sweet potato fries were crisp and tender, and the turkey apple sausage was dry but flavorful and, yes, an option for those few healthy eaters who are actually concerned with taste.

Johnny's also has a good selection of juices and smoothies, which you shouldn't be ashamed to try just because you're having breakfast. The smoothies lean toward the milky side, so those looking for more of a juice blast might want to opt for a juice bar. General consensus: at least it's better than The Wrap, folks.

As for lunch, we don't care too much for that stuff, but we've heard good things about the tuna melt.

Service was generally friendly, and surprisingly fast. Prices (\$8-\$15) are on par with Harvard-area restaurants, and the place is a snap to find (hop off the #1 bus at Crate&Barrel). If it's past lunchtime but you're still in the mood for breakfast, Johnny's is the place for you. It is nearly impossible to try everything on the menu in one sitting, so we might be heading back there ourselves sometime to check out some of the things we missed the first time around.

CONCERT REVIEW

Long Beach Dub Allstars Simply Less Than Sublime

A Mixed Legacy and a Dearth of Original Music Plagues The Long Beach Dub Allstars, Sublime's Fallout

By Jed Horne

STAFF WRITER

Okay, I'll admit it. I like Sublime, a band that unfortunately only got popular *a la* Blind Mellon, when singer Brad Nowell died of a drug overdose. On my life's to-do list was seeing Sublime live, but since that was obviously impossible, I was moderately excited when I heard that Long Beach Dub Allstars, Sublime with a new singer, was playing in Boston. I figured I'd pretend I was a legitimate music reviewer, get

free tickets, and check them out.

Maybe my expectations were too high, maybe I was jaded by the "they-used-to-be-good" syndrome (an attitude I get accused of having pretty often).

The evening didn't start out too well. I looked around the Avalon Ballroom, not one of my favorite clubs to begin with, and noticed that they had redecorated. Was that a barn behind the stage? Leaves hanging from the ceiling? I didn't get it.

Then the show began with some white

guy trying to sing dance hall style reggae and failing miserably. Thankfully, I arrived a few minutes late, and didn't catch his name.

The only things he could say to get any sort of response at all out of an otherwise lackluster crowd was something about "getting those terrorists before they get us," and a muted "Go Yankees" right before he got off stage.

LBDA finally came on, and I enjoyed myself for awhile. I even got lost in the rhythm a few times. The contact high from all the pot that members of the audience were

smoking helped a little, and I started to remember what a great band Sublime had been. So what if their new singer wasn't quite as good? It was still fun.

Eric Wilson and Brad Gaugh, the two remaining original members of the band, were worth seeing live finally (even a full five years after Brad died), and they produced handily mixed punk rock and reggae rhythms like I expected. The show started off on a good foot with "Scarlet Bego-

nias," a Sublime cover of a Grateful Dead song, which segued nicely into a retrospective of other Sublime songs, mostly off *40 Oz. To Freedom*.

Not everything they did was successful. To get the crowd excited, the band did an instrumental version of "Santeria," and hung a microphone in the crowd so everyone could sing along. It didn't exactly tweak my interest to listen to a bunch of drunk college kids try to remember the lyrics to a song that even my mother liked when Brad sang it.

Another misstep was when Opie Ortiz, Brad's replacement, draped a flag around himself for the last song. The song was based on the Rodney King riots of April 29, 1992, presumably a low point in American history. Had the band totally missed the context? What does an American flag have to do with burning down stores and killing cops? And this coming from a group of obviously well-off white folks? A little contrived.

But musically, I think LBDA's biggest mistake wasn't what they did badly, but what they didn't do enough of — play their own songs. Even with two of the original members of Sublime, the Allstars have had plenty of time to come up with new stuff, and they have. So why didn't they play them?

I can't tell if it's that they lost the spark after Brad died, or if punk rock has finally kicked the bucket (a cliché that has been going around since before Sublime was around). But whatever it was, I enjoyed listening to Sublime enough that I almost forgot I was watching the Long Beach Dub Allstars and that they really hadn't written that many good songs of their own.

I think it's time for them to go the way the Foo Fighters and all the other bands-without-their-lead-singer should have gone a long time ago. Sublime's musical moment has come and gone just like grunge rock. Time to grow up and get real jobs.



TIM SUEN—THE TECH

The Long Beach Dub Allstars plays music from the band's new album *Wonders of the World*.

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Clubs

Axis

13 Lansdowne St., 617-262-2437
Sundays: See Avalon below.
Mondays: *Static*. Gay, casual dress. \$5, 18+.
Thursdays: *Chrome/Skybar*. Progressive house, soul, disco; dress code. \$10, 19+; \$8, 21+.
Fridays: *Spin Cycle*. Prog. house, 80s. \$12, 19+; \$10, 21+.

Avalon

15 Lansdowne St., 617-262-2424
Sundays: *Gay Night* (with Axis on long weekends). Featuring hardcore house and techno. \$10, 21+.
Thursdays: *International Night*. Eurohouse. \$10, 19+.
Fridays: *Avaland*. House. \$15, 19+.
Saturdays: *Downtown*. Modern house, club classics, and Top 40 hits. \$15, 21+.

Karma Club

9 Lansdowne St., 617-421-9595
Sundays: "Current dance favorites" by guest DJs. Cover varies.
Tuesdays: *Phatt Tuesdays*. With Bill's bar, modern dance music. \$10.
Wednesdays: *STP*. Gay-friendly, house. \$15, 21+.
Thursdays: *Groove Factor*. House. Fridays: *Pure*. Drum and bass, guest DJ. \$15, 19+.
Saturdays: *Elements of Life*. International House. \$15.

ManRay

21 Brookline St., Cambridge, 617-864-0400

Wednesdays: *Curses*. Goth. Appropriate dress required. \$5, 19+; \$3, 21+.
Thursdays: *Campus*. Popular tunes + House. Gay, casual dress. \$10, 19+; \$8, 21+.
Fridays: *Fantasy Factory* (First and third Friday of the month. Features kinky fetishes and industrial music.) *Hell Night* (every second Friday, 19+). Includes Goth music.) *Ooze* (the last Friday of the month.) \$10, 21+, reduced prices for those wearing fetish gear.
Saturdays: *Liquid*. Disco/hse. + New Wave. \$15, 19+; \$10, 21+.

Popular Music

Axis

13 Lansdowne St., 617-262-2437
Next: 423-NEXT

Oct. 6: Gold Frapp.
Oct. 7: Bis.
Oct. 17: Lucky Boys Confusion/Bad Ronald.
Nov. 9: Social Distortion.

Avalon

15 Lansdowne St., 617-262-2424

Oct. 12: Megadeth.
Oct. 16: Sum 41.
Oct. 30: They Might Be Giants
Oct. 31: Cowboy Mouth, Fighting Gravity.

Berklee Performance Center

Berklee College of Music
1140 Boylston St.
Free student recitals and faculty concerts, 4 p.m. and 7 p.m. some weekdays. For info on these concerts, call the Performance Information Line at 747-8820.
Oct. 13: Dulce Pontes.
Oct. 14: Gal Costa.
Oct. 25-28: A Fool for Love.
Nov. 3: Miriam Makeba.
Nov. 4: Glory Bound!
Nov. 11: Cesaria Evora.
Nov. 14: Suzanne Vega.
Nov. 16: Whispers.

Club Passim

47 Palmer St, Cambridge, 617-492-7679

Tuesdays: Open Mic at 8 p.m. (sign up at 7:30). \$5.
Oct. 5: Sonia CD Release, Tim Mason.
Oct. 6: Paul Rishell and Annie Raines.
Oct. 7: Jon Svetkey.
Oct. 10: James O'Brien, Gooselove & Antara.
Oct. 11: Dave Carter & Tracy Grammer.
Oct. 12: Carrie Newcomer.
Oct. 13: Don White.
Oct. 17: Teddy Goldstein, Brian Webb.

FleetCenter

Ticketmaster: 931-2000.
Oct. 26: Rod Stewart
Nov. 24: Bob Dylan

The Middle East

Central Square, 354-8238
Ticketmaster: 931-2000.
Oct. 7: Beulah, Mates of State.

On The Town

A weekly guide to the arts in Boston
October 5 - 11
Compiled by Fred Choi

Send submissions to ott@the-tech.mit.edu or by interdepartmental mail to "On The Town," The Tech, W20-483.

Oct. 8: Explosions In the Sky.
Oct. 9: Handsome Family, Amor Belhom Duo.
Oct. 11: Fridge, Charlene, Landing.
Oct. 12: Scissorfight, Roadsaw.
Oct. 13: Sleazegridders Wedding Party.
Oct. 17: Ivy, David Mead.

Orpheum Theatre

1 Hamilton Pl., Boston, 617-679-0810
Ticketmaster: 931-2000

Oct. 5: Travis
Oct. 10: Judas Priest.
Oct. 12: Janeane Garofolo.
Oct. 13: Gov't Mule.

Sanders Theatre

45 Quincy St., 02138, 617-496-2222

Oct. 12: Waifs and Nerissa and Katryna Nields.
Oct. 13: Four Bitchin Babes.
Nov. 17: Folk Concert With Cris Williamson.
Nov. 24: Capitol Steps.

Wang Center for the Performing Arts

270 Tremont St., Boston 02116, 617-482-9393

Oct. 12: Bjork.
Oct. 15: Tori Amos.

Jazz Music

Regattabar

Concertix: 876-7777
1 Bennett St., Cambridge 02138, 617-662-5000
Call for schedule.

Scullers Jazz Club

DoubleTree Guest Suites, 400 Soldiers Field Rd., Boston, 617-562-4111

Oct. 5-6: Bobby Short and his Orchestra.
Oct. 10: Richard Bona.
Oct. 11-12: David Sanchez.
Oct. 16-17: Russ Freeman & the Rippingtons featuring Paul Taylor.
Oct. 18-20: Rita Moreno.
Oct. 24: Kurt Elling.
Oct. 25-26: Dee Dee Bridgewater.
Oct. 30: Krinsanthi Pappas and Sharon Di Fronzo.
Oct. 31-Nov. 1: Buster Williams Quartet "Something More".

Classical Music

Boston Symphony Orchestra

Tickets: 266-1492.
Performances at Symphony Hall, 301 Massachusetts Ave., Boston, unless otherwise noted. There is a new format for tickets for MIT students. The Council for the Arts will be distributing cards free in Lobby 10 until Oct. 18 on a first come, first served basis. Visit <web.mit.edu/arts/general/BSO.html> for more information.

Oct. 5, 6, 9 at 8 p.m.: Seiji Ozawa, conductor; Peter Serkin, piano. Brahms: Piano Concerto No. 1, Op. 15; Symphony No. 1, Op. 68. Pre-concert talk by Marc Mandel.

Oct. 18-20, 23 at 8 p.m.: Bach: Concerto for Three Violins, Strings, and Continuo. Martin: Concerto for Seven Wind Instruments, Timpani, Percussion, and String Orchestra. Bruch: Kol Nidrel, for double bass and orchestra. Bartok: Concerto for Two Pianos, Percussion, and Orchestra. Featuring the solo talents of many BSO players, Seiji Ozawa, conductor. Pre-concert talk given by Robert Kirzinger, BSO Publications Associate, from 7:30pm in Symphony Hall.

Theater

Old Times

Oct. 12-Nov. 3, Fri. and Sat. at 8 p.m., Sun. at 2 p.m.: Critically



HARVARD OFFICE OF THE ARTS

Radio personality Terry Gross, host of NPR's "Fresh Air," speaks tonight night at Harvard's Sanders Theatre at 8 p.m.; students \$10.

hailed as Harold Pinter's most important play, this intense and fascinating drama delves into the lives of three people, illuminating unspoken doubts, intimate tensions, and sensual desires which rise between them like spectres. Presented by the Theatre Cooperative at the Elizabeth Peabody House Theatre, 277 Broadway, Somerville, MA 02145. For ticket reservations

includes scuba-diver dancers, grooms in bridal gowns and choruses in neon shower caps. An engagingly clever sing-along satire of itself, *Mamma Mia!* makes you move, chuckle, and stomp your platform heels.

Comedy Connection

Mon.-Wed. at 8 p.m.; Thurs. 8:30

students with ID (\$3 on Wed.), free for children under 18. The museum, built in the style of a 15th-century Venetian palace, houses more than 2,500 art objects, with emphasis on Italian Renaissance and 17th-century Dutch works. Among the highlights are works by Rembrandt, Botticelli, Raphael, Titian, and Whistler. Guided tours given Fridays at 2:30 p.m.

Museum of Fine Arts

465 Huntington Ave., Boston, (267-9300), Mon.-Tues., 10 a.m.-4:45 p.m.; Wed., 10 a.m.-9:45 p.m.; Thurs.-Fri., 10 a.m.-5 p.m.; Sat.-Sun., 10 a.m.-5:45 p.m. West Wing open Thurs.-Fri. until 9:45 p.m. Admission free with MIT ID, otherwise \$10, \$8 for students and seniors, children under 17 free; \$2 after 5 p.m. Thurs.-Fri., free Wed. after 4 p.m.

Mon.-Fri.: introductory walks through all collections begin at 10:30 a.m. and 1:30 p.m.; "Asian, Egyptian, and Classical Walks" begin at 11:30 a.m.; "American Painting and Decorative Arts Walks" begin at 12:30 p.m.; "European Painting and Decorative Arts Walks" begin at 2:30 p.m.; Introductory tours are also offered Sat. at 11 a.m. and 1:30 p.m.

Permanent Gallery Installations:



MARINA CHAVEZ

Rockers 311 (above) and Onesidezero play at Lowell's Tsongas Arena tomorrow night.

and more info., call 617-625-1300 or visit <www.fam.net/~daak/tc>.

James Joyce's The Dead

At the Huntington Theatre Company, 264 Huntington Ave (Take the Green Line to Symphony). Through Oct. 14. Music by Shaun Davey. After it closed an extended run at Playwright's Horizon off-Broadway, the show moved to a successful run on Broadway, winning a Tony for Best Book. The show is based on James Joyce's brilliant short story. It's set at the Christmas party of Gabriel Conroy's music-loving aunts, where three generations gather each year for a holiday feast. This year, a guest's song awakens a memory for Gabriel's wife and revives a long-buried passion. For tickets, call Ticketmaster at 617-931-2000.

Sunday in the Park with George

Through Oct. 20: At the Lyric Stage, 140 Clarendon St., Boston, 1985 Pulitzer Prize winning musical portrait of 19th-century artist Georges Seurat, libretto by James Lapine, music by the great Stephen Sondheim. Tickets \$36-\$25; call 617-437-7172.

p.m.; Fri. and Sat. 8 p.m., 10:15 p.m.; Sun. 7 p.m. The oldest comedy club in Boston showcases big-name, national comedians on weekends and up-and-coming local talent during the week. At 245 Quincy Market Place, Faneuil Hall, Upper Rotunda, Boston. Admission \$10-\$8 (weekend prices vary). Call 248-9700 for more information and a complete schedule.

Blue Man Group

Charles Playhouse, 74 Warren Street, Boston, indefinitely. Curtain is at 8 p.m. on Wednesday and Thursday, at 7 and 10 p.m. on Friday and Saturday, and at 3 and 6 p.m. on Sunday. Tickets \$35 to \$45. Call 426-6912 for tickets and information on how to see the show for free by ushering.

Exhibits

Isabella Stewart Gardner Museum

280 The Fenway, Boston, (566-1401), Tues.-Sun. 11 a.m.-5 p.m. Admission \$10 (\$11 on weekends), \$7 for seniors, \$5 for

Museum of Science

Science Park, Boston. (723-2500). Daily, 9 a.m.-5 p.m.; Fri., 9 a.m.-9 p.m.; Sat.-Sun., 9 a.m.-5 p.m. Admission free with MIT ID, otherwise \$9, \$7 for children 3-14 and seniors.

The Museum features the theater of electricity (with indoor thunder-and-lightning shows daily) and more than 600 hands-on exhibits. Ongoing: "Discovery Center"; "Investigate! A See-For-Yourself Exhibit"; "Science in the Park: Playing with Forces and Motion"; "Seeing Is Deceiving."

Ongoing: "Friday Night Stargazing," Fri., 8:30 p.m.; "Welcome to the Universe," daily; "Quest for Contact: Are We Alone?" daily. Admission to Omni, laser, and planetarium shows is \$7.50, \$5.50 for children and seniors. Current Laser Light shows: *Laser Beastie Boys*, *Laser Ragefest 3*, *Laser Pink Floyd: Dark Side*, *Laser Aerosmith*.

Other

A Studio of Her Own: Women Artists in Boston 1870-1940

Through Dec. 2, 2001, at the Museum of Fine Arts. This exhibit presents over eighty of the finest paintings, sculpture, and decorative arts created by women at the turn of the last century. Drawn equally from the MFA's holdings, other museums and institutions, and private collections, the exhibition includes works by over forty artists. While some of them are well known, like Lillian Hale and Anna Vaughn Hyatt, many others remain uncelebrated. No matter the level of their fame, their art represents an aesthetic achievement of great significance and beauty.

A Dynamic Duo: Jules Dassin and Melina Mercouri

Oct. 4-Oct.24: The Harvard Film Archive presents a selection of films examining the works of director Jules Dassin and Greek actress and singer Melina Mercouri. Over the course of an eclectic directorial career that spans some forty years, Jules Dassin has worked in Hollywood, London, France, and Greece and has directed film noir, comedy, contemporary versions of the Greek classics, documentaries, and political dramas. Melina Mercouri, an acclaimed performer became Dassin's wife and the star of eight of his films. The festival includes screenings of *Phaedra* (1961, Oct. 7-8) and *Never on Sunday* (*Pote tin Kyriaki*, 1969, Director in presence). Call 617-495-4700 for more info. or visit <www.harvardfilmarchive.org> for a complete schedule. For the screening Oct. 11 tickets may be purchased in advance at the Harvard Box Office.

All festival films will be screened at Harvard Film Archive, located at the lower level of the Carpenter Center for the Visual Arts, 24 Quincy St. Cambridge. Tickets \$7, \$5 students, seniors. Tickets may be purchased at the Harvard Box Office, located at: Holyoke Center Arcade, 1350 Massachusetts Ave., Cambridge, Mass. For ticketing info. call 617-496-2222 or TTY: 617-495-1642.

The Films of Frederick Wiseman

The Museum of Fine Arts offers a complete retrospective of Wiseman's 31 documentaries, every Saturday, through April 14, 2002. At the Remis Auditorium Museum of Fine Arts, Boston, 02115 unless otherwise noted. For tickets and more information, call 369-3770. Tickets are \$8, \$7 MFA members, seniors, students.
Domestic Violence
Oct. 18 at 6:30 p.m., Oct. 20 at 10:30 a.m.: (2001, 195 min.). The area premiere of Wiseman's latest film. Shot in Tampa, Florida, *Domestic Violence* shows the police responding to domestic violence calls and the work of The Spring, the principal shelter in Tampa for women and children. Includes sequences with the police, at the shelter, and with children and parents. A discussion will follow the Sat., Oct. 20 screening, beginning at 2:15 pm.

Bjork

At the Wang Theatre, 270 Tremont St. One of the music world's kookiest artists, Bjork hits the Wang Theatre Oct. 12 to promote her latest album *Vespertine*, armed with music boxes, the San Francisco electronic duo Matmos, an Inuit female choir, and harpist Zeena Parkins. A little pricey, but this is Bjork's first tour in four years. Buy tickets on-line through Telecharge (<telecharge.com>) or call 1-800-447-7400.

SCIENCE & TECHNOLOGY

ASTROPHYSICS

Chandra Probes the Depths

X-Ray Observatory Finds Universe Filled with Black Holes

By Hong Ma

In over two years of observations, NASA's Chandra X-ray Observatory has brought back countless images of never-before-seen stellar activity and a treasure trove of information about the exotic world of black holes, supernovae, quasars, and neutron stars — whose behaviors are often much stranger than science fiction.

After 20 years in development Chandra's successful launch and operation has made history in many ways. At 23 tons, it is one of the heaviest objects ever carried by shuttle. The crew was led by Eileen Collins, the first female ever to command a shuttle. Chandra's July 1999 release into deep space, led by astronaut Catherine G. Coleman '83, marked the 50th flight into space by an MIT graduate.

MIT's Center for Space Research (CSR) built two of the four science instruments on Chandra — the High Energy Transmission Grating (HETG) spectrometer and the Advanced CCD Imaging Spectrometer (ACIS), jointly developed by MIT and Pennsylvania State University. The combination of these two instruments gives Chandra orders of magnitude improvements in resolution in both imaging and spectroscopy over previous x-ray observatories.

"We are seeing images ten times sharper and spectra 1000 times sharper [than in previous missions]," said Claude R. Canizares, the principal investigator for HETG and director of CSR. The new capabilities make it possible to actually resolve the dynamics of interstellar processes. Sharper spectra help to accurately measure temperature, chemical composition, and even relative velocities of stellar objects.

Chandra's remarkable resolution is useful for observing the behavior of a black hole, the extraordinarily dense object predicted by Einstein's general theory of relativity, whose gravitational force is so strong that even light cannot escape. Gases sucked into black holes, however, are heated to extremely high temperatures and emit powerful x-rays. By



The Chandra Telescope has the ability to resolve the edge of the universe.

analyzing the x-ray luminosity, astronomers are able to put a lower limit on the mass of the black hole. Chandra allows astronomers to observe the rich variety of black holes, which span nine orders of magnitude in size. The size of the observed black holes ranges from stellar black holes of a few solar masses to massive black holes found at the center of quasars, which weigh in at 109 solar masses.

Chandra has been able to resolve the haze of background x-ray radiation seen by previous instruments into discreet sources, many of which are black holes. This observation has effectively assigned new demographics for black holes in the universe. Whereas previously fewer than 40 black holes had been observed, Chandra's new data has shown that there may be as many as 300 billion black holes in the observable universe.

By resolving fainter and fainter objects in the background, Chandra "has the ability to resolve the edge of the observable universe. You don't need a bigger telescope. We are very close right now and just need to do a

few more scans," said Canizares. "The observable universe is finite because the universe has a finite age and a finite rate of expansion."

Chandra has obtained some of the most magnificent images of a supernova, the final stage of a star's life.

"These x-ray images show the details of the transfer of energy from a rotating neutron star out into the interstellar medium. You can see rings and jets and material moving along the jets and spreading around the rings in all sorts of the details that we were never able to see before," said Harvey Tananbaum, director of the Chandra X-ray Observatory Center in Cambridge. By resolving the dynamics of the remnants, it is possible to get to the details of the physics of supernovae where heavy elements like silicon and iron are ejected.

Chandra observations providing insight into the great cosmic mystery of gamma ray bursts — the mysterious explosions in space that can radiate energy equivalent to the entire rest mass of a star in a few seconds.

Chandra, Page 10

CHEMISTRY

The Door that the Buckyball Opened

From Balls to Tubes, and Beyond

By Naina S. Ahmad

The birth was accidental, stemming more from serendipity than coming after a long gestation period of scientific analysis and toil. Unexpected results from a laser blasting experiment with graphite chunks, nights of red-eyed agonizing over finding an explanation for these results, and a taped paper model later, the buckyball was born.

Buckyballs are made of carbon. Like other forms of carbon, diamond and graphite, buckyballs are large molecules of repeating units made up of carbon atoms attached to each other. They have their own distinctive arrangement of 60 carbon atoms folding over into a soccer ball. And it is this distinctive structure that imparts the exceptional tensile strength and electrical conductivity to the buckyball molecule.

Defects are key to buckyball shape

In the buckyball, each carbon atom is bonded to three other carbon atoms, forming the corners of a hexagon. Many such repeating units form a network of interconnected hexagons. At the edges of the network, however, each carbon atom can not find a full set of three partners to bond to. For a molecule, these free bonds are bad news, since they mean a lot of energy wasted in searching for a missing partner. To eliminate this energy cost, the sheet of hexagons begins to curl around, like a piece of paper curls up in the fire as it begins to burn, and forms a ball, closing up these loose ends.

Yet, if you take a piece of paper and cut out a hexagon, and tape many of these hexagons side-by-side into a large sheet, you won't be able to fold the sheet over into a smooth ball. In fact, all corners won't meet to close up into a ball at all. Then what provides the uniform curvature for such bending in the buckyball?

Apparently, the hexagonal network sheet harbors occasional defects of pentagons and heptagons, in spe-

cific parts of the sheet. These shapes in exactly those particular locations allow the sheet to bend over at the corners to form the smooth surface of the ball. Once the carbon atoms aggregate into this extremely specific conformation, the overall structure of the buckyball is extremely stable and resistant to attempts to break it open.

The big deal behind buckyballs

This structural stability and nature of the buckyball gives it its two unique physical properties.

Firstly, of its four spare electrons, carbon in the buckyball molecule uses three electrons to form bonds with its three neighbors. The lone electron per carbon atom that is not held rigid in bond formation is hence mobile. This free electron per carbon atom imparts high electrical conductivity to the molecule. If 60 copper atoms were gathered to form a single unit, then the buckyball molecule of carbon would have about 50 to 100 times higher electrical conductivity than the copper bundle.

Secondly, in a molecule of buckyball, the atoms are all interconnected with each other. This resulting energetically stable conformation gives the buckyball molecules exceptional tensile strength. Evidence shows that if buckyball molecules were used to form a rod, it would be almost 50 to 100 times as strong as steel, even at one fourth the weight.

The only barrier to mass use of the material was the difficulty with large-scale production. The problem was that the buckyballs could only be produced in minuscule amounts under extreme temperatures, which is hardly conducive to industrial scale production. However, once this extreme temperature of about 500,000 degrees Celsius was achieved by laser, carbon atoms themselves took care of the rest as they automatically self assembled into buckyballs.

In the hopes of producing greater

Buckyballs, Page 10

TECHNOLOGY ANALYSIS

Why the Towers Fell

By Yasmine Abbas

On the 11th of September, the twin towers of the World Trade Center, once the tallest on earth, were toppled with horrifying efficiency. Experts continue to ask the question, could we have limited the scope of the tragedy through technological means?

"Today I found myself walking to work, about the same time, looking down 6th Ave, and there is nothing," said Erik Nelson, who graduated from MIT in 1999 with a Master of Engineering in High Performance Structures and is now working at ground zero.

"There's absolutely nothing down there but some smoke. Now I am starting to understand the impact and am coming to grips with my emotions," he said.

Three weeks ago, a fully fueled 767 hit the North Tower at high speed. Moments later a second passenger jet smashed into the 110-story South Tower. By day's end, the collisions left a pile of rubble in Lower Manhattan.

Heat topples the buildings

The possibility for tragic accidents and potential safety measures, however, are always taken into account when building urban skyscrapers. The Port Authority of New York, which had commissioned the

Trade Center project, had planned for the possibility that planes could get lost in the fog and hit the towers. The largest engine the builders had taken into account, however, was smaller than a 767. Nevertheless, the towers did manage to resist the sheer impact of the hit. Instead, the complex's Achilles heel was its inability to remain stable in the face of the intense heat resulting from the combustion of the jet fuel on board the planes.

"The heat took down the building. Structurally, the buildings performed well," said Nelson. "For example, when 75% of the columns on the north face of Tower 1 were destroyed, the beams and frame elements above could span across the huge opening carved by the 767."

Engineers, when making their calculations, took into consideration natural phenomena like wind and earthquakes and human factors such as height sickness and office fires. While a sprinkler system can protect against small office fires, it was no match for the conflagration which followed attack.

Debate over towers' performance

In the case of each tower, the entire structure, termed a rigid tube structure because it is constituted of perimeter columns, is dependent on the strength of steel. Supporting columns, the inside frame, bolts,



The remnants of New York's World Trade Center: an international massacre and an engineering debacle.

and the external walls were all made of steel, material which distorts and loses its strength when exposed to such stratospheric temperatures. The protection of the steel structure that delayed the collapsing was made using a substitute for the carcinogenic Asbestos.

Some scientists fear, however, that these substitutes, tested only at relatively normal fire temperatures, were not as efficient as the original Asbestos. They theorize that perhaps more lives could have been

saved were it not for the insufficient fire protection.

Still not all experts agree. "All materials lose strength with high temperatures including concrete. Concrete columns, like in the Petronas Towers ... may have lasted longer, but there is no way of answer ... without extensive analysis" said Nelson. "I would guess that many skyscrapers would have collapsed sooner than the WTC because of its closely spaced perimeter columns and its structural

redundancy."

Engineers have put forth the idea that the twins could have resisted destruction if they were built like a nuclear power plant, which is designed to withstand attacks from incoming aircraft. Critics are quick to point out, however, that the plan would not be aesthetically pleasing.

"Maybe [they would have survived], but there would be no windows!" said Nelson. "Again, the fire is the issue, not the strength of the structures."

INTERSECTIONS

The Pointe Shoe

The Hidden Tribulations Behind Ballet Shoes

By Bess Rouse

When I was twelve, my mother took me to Kling's Motion Unlimited to buy my first pair of pointe shoes. This was an event that I had awaited since I had started dancing five years prior. I had seen and heard about the horrors of pointe dancing: oozing blisters, bleeding toes, infected ingrown toenails, etc. Finally, this was my chance to find out for myself.

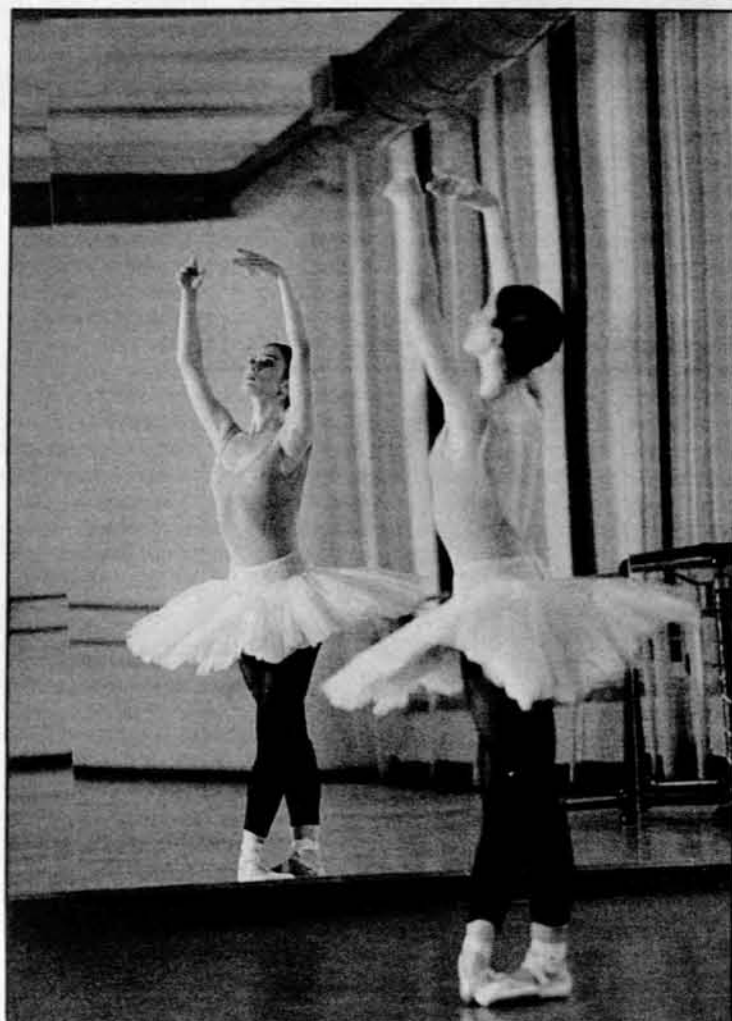
After putting on the first pair of Capezio shoes, I understood. My toes were completely squished together and were unable to move. My feet felt like they had been suction-wrapped and then coated in metal. Without the toes' ability to splay and grip the floor, my feet rocked from side to side. Even standing on one foot became an impossibility. Balancing *en pointe* (on the tips of the shoes) was the only position that seemed at all comfortable. The satin that covers the shoes made the floor feel like an ice rink. Also, the ribbons that characteristically criss-cross around the ankles do not come already sewn on the shoes, so the shoes constantly slipped off my feet. I had entered the world of "real" dancers.

Pointe shoes are supposed to help the dancer achieve the illusion that she is weightless, that she moves without effort. The shoes extend the abilities of the dancer's foot by essentially providing her with a set of hard toes. With these toes, she can look like a ghost skimming across the floor, or a fairy taking flight. However, if the shoes fail to provide the proper support and flexibility, she can look like a baby deer learning to walk, stumbling over her own legs. In that first pair of shoes, I looked like the baby deer.

When pointe shoes are first purchased, they are hard, restricting, and impossible to dance in. The toe box, which encases the toes, is often made from layers of burlap and paper soaked in glue. This part of the shoe must be exceptionally strong, as it needs to support the dancer's entire weight as she balances and maneuvers. The toe box can be so hard that the audience can hear the shoes clapping against the stage over the sound of the music.

A hard insole, the shank, supports the arch of the foot as the dancer is *en pointe*. Shanks are made of anything from cardboard to steel, depending on the desired strength. If a dancer has a weak foot that is flexible, she needs a strong shank to support her arch. If, however, her foot is strong and relatively inflexible, a weak shank allows the foot to arch without inhibition. The entire slipper, or boot as it may be more accurately called, is deceptively covered in delicate pink satin, hinting at the ideality of softness rather than the reality of harshness.

There are some tricks that most dancers use to prepare their shoes for dancing. These techniques are generally learned through word of



NOVA

mouth. At the beginning of my first pointe class, for instance, a classmate (whose older sister had danced) reached into her giant ballet bag, pulled out a huge cigarette lighter, and proceeded to burn the edges of her ribbons. The rest of the class was amazed. Our ribbons, which we had attempted to neatly tie around our ankles, had fraying threads streaming everywhere. By the next class, all of us had our own lighters and frayless neatly tied ribbons.

Learning to cut the satin off the tips of the shoes only takes a couple of slippery falls to the ground. However, breaking in the toe box is the most challenging part of the process, because a delicate balance between maintaining the strength to support the foot and allowing flexibility for articulation is difficult to achieve. At some point in their dance careers, many dancers try using water or rubbing alcohol to mold the glue that makes the toe box hard. Also, the shank must not be brittle, but should be both supple and strong. By gently bending the shank back and forth, it becomes more limber. Some dancers then paint the inside of the shoe with Future floor wax, shellac, or super glue so that the strength is maintained and the shoe does not deteriorate.

Since the ultimate goal is to have the shoe feel as if it is part of your foot, every dancer's actual method for molding the toe box and shank is unique, as all feet are unique in their strength and flexibility. I, for exam-

ple, tried using steam and water to mold the toe box, but found that both completely destroy the glue. Rubbing alcohol allows you to reshape the box, but it rehardens completely. To further break in the box, I hammer the area where the toe knuckles come into contact with the shoe. Besides softening the box, hammering reduces the amount of noise the shoes make on stage.

Many Russian makers, such as Grishko, design shoes with very pointed toe boxes so that only narrow toes can fit comfortably. Other companies, like Sansha and Blocke, make square boxes that look clunky and unattractive.

In the late nineties, Gaynor Minden began producing a shoe that takes most of the guesswork out of the break-in process. The box and shank are made of a material, elastomeric, which never breaks and can be reshaped using a hair dryer. The toe box also has a shock-absorbing panel that reduces noise and pain on impact. Though the shoe is revolutionary, many dancers still choose to carry out their individual break-in methods. Preparing the shoes to be danced in is ritual. It must be learned and perfected to be a ballet dancer, and is not easily swayed by advances in technology.

The most important lesson, which I learned through several months of sheer pain, is that your shoes should fit. This may seem obvious, but with all the lore that surrounds pointe dancing, having your toes squished and uncomfortable seems par for the course.

Chandra Followed Hubble, Compton

Chandra, from Page 9

After each explosion, remnants become a slowly-decaying x-ray source. Because of its sensitivity, Chandra can trace the fall-off of x-ray afterglows for periods of weeks or months, whereas previous x-ray telescopes could only track these afterglows for a few days. Chandra's spectrometer has also picked up spectral lines of surprisingly cool iron that may provide geometric information on the explosion.

Chandra is also involved in finding the amount and distribution of matter in the universe. In the regions between the galaxies are vast quantities of hot gas that emit a lot of x-rays. The quantity of matter in these

regions of space can be measured by first finding the density of the gases from their intensity and the temperature of the gases from the spectrum. Knowing intensity and temperature, it is possible to find the pressure, which can in turn be used to find gravitational pull necessary to keep the gas from spreading apart. By finding out the distribution of mass in the universe, it may be possible to answer questions about whether there is dark matter — particles that interact only by means of gravity — in the universe, or will the universe continue to expand forever or end in a "big crunch?"

Chandra is actually the third installment of NASA's fleet of great space observatories covering much of

the electromagnetic spectrum. They include the Hubble Space Telescope, the now retired Compton Gamma Ray Observatory, and the Space Infrared Telescope Facility, which is scheduled for launch in July 2002. By combining data collected by these instruments and other satellites from Europe and Japan, it is possible to answer some of the most basic questions of the universe.

"Right now we are at an incredibly rich time when there is a lot of new information coming in about the big bang, the size and age of the universe, the amount of matter in the universe, whether the universe will expand forever or contract, whether there is dark matter and dark energy," said Canizares.

Buckytubes Make Waves in Many Fields

Buckyballs, from Page 9

amounts of the buckyballs under milder conditions, scientists began to experiment with different levels of temperatures for different durations. Some metal particles, like cobalt and nickel have been known to help reactions occur at milder conditions of temperature and pressure and are widely used in various industrial processes.

Buckytubes

Scientists tried adding trace amounts of these metals, separately, and then together as a mixture, to see if that made buckyball formation any easier. It was during one such adjustment that they stumbled upon a novel bucky shape — the capped buckytubes.

When a laser beam was aimed at a block of graphite with traces of cobalt and nickel, the graphite vaporized at temperatures exceeding 300,000 degrees. Now, when it came in contact with a comparatively cooler copper collector in a 1200 degree Celsius oven, the carbon atoms appeared to aggregate into molecular tubes instead of their ball shape. Almost as if the ball had been spliced in half, and a belt of another 10 carbon atoms in hexagons added as a layer in between, followed by many more belts layered on, to elongate the buckyball into a buckytube with hemispheric caps at the two opposite ends. Why did carbon suddenly opt for such variety in shape, forming these molecular capped tubes instead of the balls?

Makers of the buckytubes believe that the cobalt and nickel atoms temporarily lodge onto the dangling bonds at the sheet edges, and stall the curling up of the sheet long enough for several belts of hexagons to be layered onto the forming hemisphere. Now it is too late for the forming bucky to turn back into a ball, and it takes the path of least energy consumption, accepting many more belts and elongating into a closed hollow tube an atom thick.

What this implies may hold significant promise in the study and use of bucky molecules. Given appropriate conditions of extreme temperatures, carbon atoms can self-aggregate into bucky shapes. Tampering with the conditions can change the fate of the shape that these carbon atoms will assemble into. Once we figure out the appropriate settings, we can theoretically make buckytubes go on forever, into long fibers one atom thick. Macroscopically long nanotubes. And its exceptional strength, thermal and electrical conductivity coupled with its atomic scale size can make it a truly marvelous material for a wide range of purposes.

Tubes used in electronics, biology

So what exactly can we use these molecular tubes for? On the macroscopic scale, hundreds of thousands of such nanotubes can be laid side by side or roped into light strong wires or composites. The key to the future of lightweight vehicles, earthquake resistant buildings, light bulletproof vests; you name it and the material scientists excitedly claim that the buckytubes may hold promise for it.

On a microscopic scale, buckytubes also seem to hold great potential. Today, miniaturization of computer chips and other electronic parts are severely limited by the size of the wires that must feed the components. Scientists are hoping that the mechanical resilience and electrical conductivity of these molecular tubes may hold extensive promise for wiring up nanoscale electronic devices.

Buckytubes seem to excite scientists from a range of disciplines — from the "dry" world of electronics to the "wet" world of life sciences. Applying electrical fields to the tips of these tubes have been shown to open up the carbon connections, allowing the tips to be saddled with

other chemical molecules. Such open-ended nanostraws could penetrate into a cellular structure for chemical probing in diagnostic purposes, or could be used as ultra-small pipettes to inject molecules into living cells with almost no damage to the latter. Perhaps these hollow tubes can be stuffed with drugs and closed up again, a unique drug delivery mechanism that may be coordinated to use cellular signals in the body to open up when the drugs are needed.

Yet perhaps most thrilling is what buckyballs really are. They are carbon — what every component of the living world is made up of. Previously the inanimate electronic world had monopoly over high tensile strengths and high electrical conductivities, while the living world specialized in complicated interconnected machinery on a nano scale. Now, through these bucky-molecules, these two worlds may be united, and the interface between the dry and wet worlds may meet. Gadgets whose intricacy rivals that of living cells, bacteria-size sensors or drugs whose active ingredients resemble tiny, intelligent robots more than ordinary chemicals may not be as far off into the future.

Scientists have discovered the correct conditions that can instigate carbon atoms to form this extraordinary class of molecules, buckytubes. With the right set of environmental variables, can we program the carbon in our body cells to self assemble into these bucky units?

Sure, if the 300,000 degree laser pulse doesn't fry the living cells first, claim skeptics. Remember that carbon stays comfortable in its form as graphite or charcoal until it is heated up to the extreme temperature. Only when it has the perfect condition, of high temperature and suitable traces of metals to help it along the way, only then can carbon leisurely fold into the marvelous bucky shapes.

Advocates of biological buckytube formation are careful with their replies. They claim that if carbon can self assemble into bucky shapes at a particular set of extremely stringent conditions, perhaps the same self-assembly can be instigated in a biological system under an entirely mild set of conditions. Far fetched as this may sound, it may not be entirely impossible. Biological molecules are capable of discharging a wide range of functions that their inorganic counterparts in our labs would stumble and stall at in the absence of extreme conditions. There are bodily reactions that take place even under the mild temperature and pressure within our bodies; made possible by biological molecules such as enzymes.

These same reactions may never even take place in the lab, and may proceed slowly under extreme pressure and temperatures in the industry. Scientists believe that perhaps one day it will be possible to harness this remarkable property of biomolecules to induce the carbon within living systems to self assemble into bucky tubes, without the laser.

There is a nice little trick that holds much more promise than may be immediately apparent. Even with their diverse abilities, living cells invariably take a back seat when it comes to electrical conductivity. Even what electric impulses there are in the body is generated and maintained by proteins, enzymes and a host of other complex molecules interacting in even more intricate pathways.

If we could code target parts of our cells to grow buckytubes, it could mean the key to treating nerve regeneration in paralysis cases and in neurological diseases. It could mean correction of inadequate signaling pathways, and may promise a means of treating a host of other related diseases. And laying the groundwork for such electrical circuitry at the molecular level within the living system may not be too far off in the future with these marvelous bucky shapes.

SIEBEL SYSTEMS CONGRATULATES

THE SIEBEL SCHOLARS CLASS OF 2002

SIEBEL SYSTEMS established the Siebel Scholars program to recognize students who have demonstrated academic and leadership excellence at the world's leading graduate schools of business and computer science. Each year, these outstanding students are selected based upon academic merit and leadership in the first year of their graduate studies. We are pleased to recognize the recipients of this year's Siebel Scholarships, each of whom has received an award of \$25,000.

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School of Computer Science

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JOHN LANGFORD	DAVID WILKINSON
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PAUL CARAGHER	CARL HARRIS
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AMIT SINHA	

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Are you tired?

bored?

hungry?

RESTLESS?

YET ALWAYS BUSY?

YOU TOO MIGHT BE AN M.I.T. STUDENT.

What's that solar?
another Kooky invention?

NO, IT'S MY
BIKE HELMET.

OH.

10-3

THERE ARE, LIKE, 14 CLUBS IN HERE. HOW DO YOU KNOW WHICH ONE TO USE?

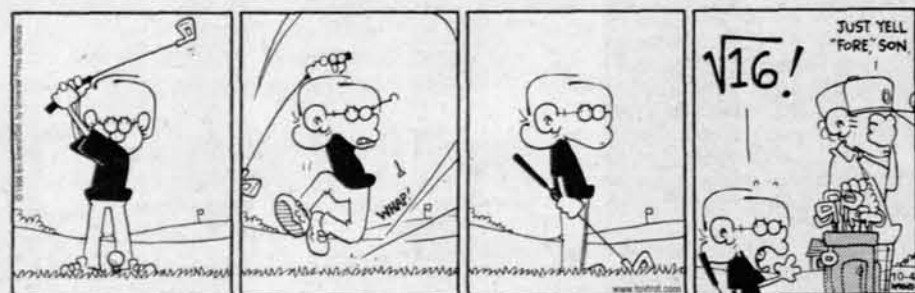
IT DEPENDS.

GENERALLY, THE LONGER THE CLUB, THE FARTHER YOU CAN HIT THE BALL.

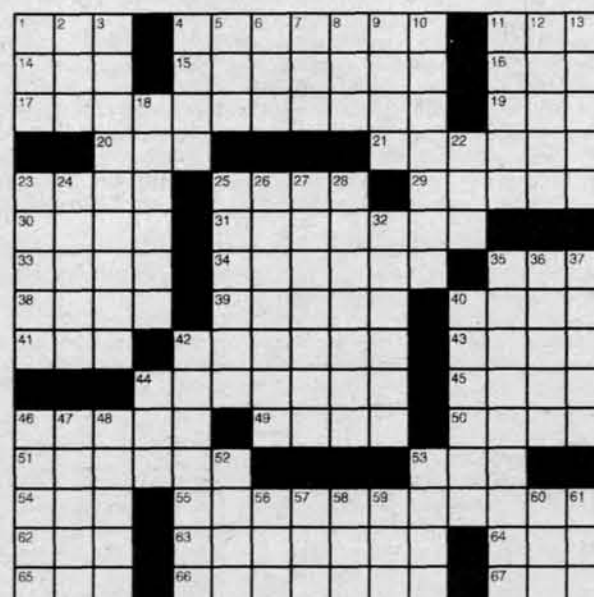
UM, ARE YOU SURE YOU DON'T HAVE THAT BACKWARD?

TRY CHOKING UP A LITTLE.

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ACROSS
1 Naughty
4 Tachometer
zone
11 Vigor
14 Lyrical poem
15 Ripken's team
16 "We __ the
World"
17 Male features
19 Golf norm
20 Calendar
increment
21 Fine, twilled linen
23 Cast off
25 Gremlins
29 Go-aheads
30 First-class
31 Crusader's foe
33 Suckered
34 Set up a
blockade
35 Spacey movie,
with "The"
38 Stout's Wolfe
39 Digestive-system
malady
40 Distribute
41 Blockhead
42 Descendant of
Stern
43 Turquoise



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64 Sock end	11 "___ Delicate	44 Kipling's last
65 Kiddie seat?	Condition"	book
66 Conceal	12 Wipe out	46 Stand for a
67 First lady?	13 Fringe benefits	portrait?
	18 Worked with less	47 Vicuna's kin
DOWN	22 Guys	48 Prankster
1 Scarf like a	23 Finn's bath	52 Bancroft or
snake	24 Garden waterers	Boleyn
2 State further	25 Circulator	53 Bonanza
3 Mufflers	26 Letter carrier	56 Medico
4 Chipper	27 Exact	57 Commit a
5 Time period	28 Herbal quaff	mistake
6 Chip scoop	32 Brunch choice	58 Chowd down
7 Hang loosely	35 Essential	59 Fido's doc
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9 Poverty	37 Noteworthy acts	61 Holy smoke!
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test	42 Depression	

Events Calendar

Visit and add events to TechCalendar online at <http://events.mit.edu>

Friday, October 5

7:30 a.m. - 5:00 p.m. – **Soil Behavior and Soft Ground Construction.** The Ladd Symposium. Fee. Room: Wong Auditorium Bldg. E51. Sponsor: Engineering & Environmental Mechanics Group. Department of Civil and Environmental Engineering.

9:00 a.m. - 9:00 p.m. – **Architecture Conference: East European Art and Architecture.** Co-sponsored by the Graham Foundation; MIT School of Architecture and Planning; and MIT School of Humanities, Arts, and Social Sciences. Organized by Prof Mark Jarzombek, MIT Dept of Architecture, MIT, with the collaboration of Juliana Maxim.. free. Room: Killian Hall. Sponsor: Department of Architecture.

12:00 p.m. - 1:00 p.m. – **FileMaker User Group.** The MIT FileMaker User Group (fmug) was formed for people at MIT, from beginners to experts, who are using or interested in learning to useFileMaker(r) Pro database software and related products. After several years of dormancy, the group has been revived to acknowledgeincreasing use of FileMaker products on campus and to help the user community transition to FileMaker 5.. free. Room: N42 Demo Center. Sponsor: Information Systems.

3:00 p.m. - 4:00 p.m. – **Electrical Double Layers in Liquid Crystals.** Department of Chemical Engineering, University of Wisconsin. free. Room: 66-110. Sponsor: Chemical Engineering.

4:15 p.m. - 5:15 p.m. – **Combinatorial bounds for list-decoding.** Refreshments will be served at 3:30 PM in Room 2-349. free. Room: Room 2-338. Sponsor: Combinatorics Seminar. Department of Mathematics.

6:00 p.m. - 8:00 p.m. – **Native American Women Filmmakers — Panel Discussion.** Curated by Candis Callison and produced by Brandy Evans. Reception follows.. free. Room: Rm 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts at MIT.

6:00 p.m. – **LSC Presents: Pearl Harbor.** The motion picture event of the summer comes to LSC! Ben Affleck and Josh Hartnett star as Rafe McCawley and Danny Walker, two childhood friends who dreamt of flying. Both fall in love with the same woman, Evelyn Stewart (Kate Beckinsale) amidst ever-gathering storms of war. The Japanese attack Pearl Harbor, and the two are called off on a secret mission to bomb Tokyo. In awesome 35mm Panavision (anamorphic widescreen), surrounded by 6 channels of DTS Digital Sound.. \$3. Room: 26-100. Sponsor: LSC.

7:00 p.m. - 12:00 a.m. – **MIT Anime Club Weekly Screening.** *Trigun (ep 9-12)*. Also: *TBA*. Most screenings are subtitled in English. The MIT Anime Club is a non-profit MIT student organization dedicated to increasing the awareness of Japanese animation (anime) on campus.. free. Room: Rm 6-120. Sponsor: Anime Club, MIT.

7:00 p.m. - 9:00 p.m. – **Falun Gong Exercise workshop.** The Falun Gong exercise is an easy and effective way to relieve stress and improve physical and mental health. Millions of people in over 40 countries practice these 5 sets of gentle movements.. free. Room: 1-242. Sponsor: Falun Dafa Club.

7:30 p.m. – **LSC Classics Presents: Twelve O’Clock High.** A powerful drama about the men of the Army Air Force who flew daylight bombing raids over Germany in the Second World War. Academy-Award winner Gregory Peck stars as a bomber commander who inspires heroic conduct from his men despite tremendous losses. Winner of the 1949 Academy Award for Best Supporting Actor (Dean Jagger) and Best Sound Recording.. \$3. Room: 10-250. Sponsor: LSC.

8:00 p.m. – **Ancestrals (Ancestors),** MIT Guest Instructor Isaura Oliveira performs her solo work for body and voice, interacting with other media and arts. The Afro-Brazilian dancer-choreographer brings to MIT a portion of her original project created in Fall 1999 with support of La Centrale dell’Arte - International Art Exchange. Ms. Oliveira teaches Advanced Topics in Theater: Afro-Brazilian dance at MIT and has received a Council for the Arts at MIT grant to do this particular work. Concept, choreography and research by Isaura Oliveira; co- directed by Isaura Oliveira and Associate Professor Thomas DeFrantz; music by Bira Reis, Mathias Grob and Banda IluBata and traditional Brazilian repertoire. . free. Room: Kresge Little Theater. Sponsor: Music and Theater Arts Section.

9:00 p.m. - 11:30 p.m. – **Native American Women Filmmakers—Video Festival.** Three evenings of screenings featuring 12 films by Native American women filmmakers. Curated by Candis Callison and produced by Brandy Evans. Friday, Oct. 5—“The Role of Art in Native Culture”; Saturday, Oct. 6—“Native/Modern Culture Clash”; Sunday, Oct. 7—“Sexuality and Gender Issues in Native Cultures”. free. Room: Rm 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts at MIT.

10:00 p.m. – **LSC Presents: Pearl Harbor.** Replay. See 6:00p listing for description.. \$3. Room: 26-100. Sponsor: LSC.

– **Native American Women Filmmakers—Video Festival.** Three screenings featuring 12 films by Native American women filmmakers.. free. Room: 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts.

Saturday, October 6

9:00 a.m. - 6:00 p.m. – **Architecture Conference: East European Art and Architecture.** Co-sponsored by the Graham Foundation; MIT School of Architecture and Planning; and MIT School of Humanities, Arts, and Social Sciences. Organized by Prof Mark Jarzombek, MIT Dept of Architecture, MIT, with the collaboration of Juliana Maxim.. free. Room: Killian Hall. Sponsor: Department of Architecture.

1:00 p.m. – **The IG INFORMAL LECTURES.** If you missed the Eleventh 1st Annual Ig Nobel Prize Ceremony held at Harvard on the 4th, then shame on you. However, you do have a chance to redeem yourself by attending the 2nd Eleventh 1st Annual IG INFORMAL LECTURES at MIT. Please join us for a half-afternoon of improbably funny, informative, brief (10-15 minutes each), and high-spirited public lectures by some of this years honored Ig Nobel Prize winners: David Jones (Nature magazine’s “Daedalus”) will delight and confound everyone and everything. The 2001 Ig Nobel Prize winners in the fields of Biology, Medicine, Public Health, Economics, and Peace will attempt to explain why they’ve done what they’ve done. The Ig Nobel Prizes honor people whose achievements “cannot or should not be reproduced.” Ten prizes are given to people who have done remarkably goofy things — some of them admirable, some perhaps otherwise. All Ig Nobel Prizes activities are organized by the Annals of Improbable Research (AIR). This free event is organized in cooperation with the MIT Press Bookstore.. free. Room: MIT 26-100. Sponsor: The MIT Press Bookstore. The Annals of Improbable Research (AIR).

1:30 p.m. – **Football vs. Bridgewater St.**, free. Room: Steinbrenner. Sponsor: Department of Athletics.

5:00 p.m. - 7:30 p.m. – **Native American Women Filmmakers— Video Festival.** Three evenings of screenings featuring 12 films by Native American women filmmakers. Curated by Candis Callison and produced by Brandy Evans. Friday, Oct. 5—“The Role of Art in Native Culture”; Saturday, Oct. 6—“Native/Modern Culture Clash”; Sunday, Oct. 7—“Sexuality and Gender Issues in Native Cultures”. free. Room: Rm 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts at MIT.

7:00 p.m. – **An Evening of Lively Argument with Peter David, Harlan Ellison, and Neil Gaiman** . Peter David, Harlan Ellison, and Neil Gaiman are a trio of hugely popular authors whose most-recognized works include the Sandman comics, Babylon 5, best-selling Star Trek novel Imzadi, and the original script for the legendary Star Trek episode “City on the Edge of Forever”. Although much of their work has fallen within the science fiction genre, the three men have worked in every conceivable medium: television, film, fiction and non-fiction books, short stories, essays and comic books- and have acquired followings in all of them. Hence, this event will be a panel discussion on the creative process of fictional works in many fields. Ellison (whose 50-year retrospective, The Essential Ellison, has just been published) in particular is known for drawing attention to the art of writing by performing the fantastic feat of actually creating and executing stories in the windows of numerous American and European bookstores- stories that have gone on to win major awards and literary prizes. (Maybe he’ll give a demonstration!) Gaiman, on the other hand, was a good friend and something of a protege of the late Douglas Adams, and will likely have thoughts to share regarding what Adams taught him about being an author. Throughout the discussion the trio will interact with the audience in dynamic questions and answers. Come and savor the antic unsettling imaginations of three outspoken contemporary fantasists.. \$4-\$16. Room: Kresge. Sponsor: CAC Program Board, Graduate Student Council, LSC, Tau Beta Pi, Mass Beta Chapter, Undergraduate Association, Epsilon Theta, Comparative Media Studies. East Campus, Senior House, Peter de Florez Fund for the Humanities, the MIT Fund, Arisia, Inc., Weekends@MIT, the MIT Graduate Students Office, the Department of Literature, and the Council for the Arts at MIT.

8:00 p.m. – **Ancestrals (Ancestors),** MIT Guest Instructor Isaura Oliveira performs her solo work for body and voice, interacting with other media and arts. The Afro-Brazilian dancer-choreographer brings to MIT a portion of her original project created in Fall 1999 with support of La Centrale dell’Arte - International Art Exchange. Ms. Oliveira teaches Advanced Topics in Theater: Afro-Brazilian dance at MIT and has received a Council for the Arts at MIT grant to do this particular work. Concept, choreography and research by Isaura Oliveira; co- directed by Isaura Oliveira and Associate Professor Thomas DeFrantz; music by Bira Reis, Mathias Grob and Banda IluBata and traditional Brazilian repertoire. . free. Room: Kresge Little Theater. Sponsor: Music and Theater Arts Section.

8:00 p.m. - 11:00 p.m. – **Patrol.** Shoot your friends! Travel to strange, new classrooms; meet interesting, unusual people; and kill them. A team game of shoot-em-up; guns provided.. free. Room: Building 36, First Floor. Sponsor: Assassins’ Guild, MIT.

10:30 p.m. – **Women’s Soccer vs. Smith** . free. Room: Steinbrenner. Sponsor: Department of Athletics.

– **Native American Women Filmmakers—Video Festival.** Three screenings featuring 12 films by Native American women filmmakers.. free. Room: 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts.

TechCalendar appears in each issue of *The Tech* and features events for members of the MIT community. *The Tech* makes no guarantees as to the accuracy of this information, and *The Tech* shall not be held liable for any losses, including, but not limited to, damages resulting from attendance of an event. Contact information for all events is available from the TechCalendar web page.

Sunday, October 7

1:00 p.m. - 5:30 p.m. – **Ballroom Dancing Workshops.** Beginner ballroom dance steps will be taught. There will also be a new focus on developing techniques as well. Open to everyone. No experiences necessary. No partners required.. Visit our website for pricings. Room: Visit our website for venues. Sponsor: Ballroom Dance Club.

3:00 p.m. – **Ancestrals (Ancestors),** MIT Guest Instructor Isaura Oliveira performs her solo work for body and voice, interacting with other media and arts. The Afro-Brazilian dancer-choreographer brings to MIT a portion of her original project created in Fall 1999 with support of La Centrale dell’Arte - International Art Exchange. Ms. Oliveira teaches Advanced Topics in Theater: Afro-Brazilian dance at MIT and has received a Council for the Arts at MIT grant to do this particular work. Concept, choreography and research by Isaura Oliveira; co- directed by Isaura Oliveira and Associate Professor Thomas DeFrantz; music by Bira Reis, Mathias Grob and Banda IluBata and traditional Brazilian repertoire. . free. Room: Kresge Little Theater. Sponsor: Music and Theater Arts Section.

4:00 p.m. – **Veena Sahasrabudde, Hindustani vocalist.** \$17; \$14—MITHAS and New England Hindu Temple members; \$10—students. Room: Wong Auditorium. Sponsor: MITHAS (MIT Heritage of South Asia).

5:00 p.m. - 7:30 p.m. – **Native American Women Filmmakers— Video Festival.** Three evenings of screenings featuring 12 films by Native American women filmmakers. Curated by Candis Callison and produced by Brandy Evans. Friday, Oct. 5—“The Role of Art in Native Culture”; Saturday, Oct. 6—“Native/Modern Culture Clash”; Sunday, Oct. 7—“Sexuality and Gender Issues in Native Cultures”. free. Room: Rm 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts at MIT.

6:00 p.m. – **LSC Presents: Pearl Harbor.** The motion picture event of the summer comes to LSC! Ben Affleck and Josh Hartnett star as Rafe McCawley and Danny Walker, two childhood friends who dreamt of flying. Both fall in love with the same woman, Evelyn Stewart (Kate Beckinsale) amidst ever-gathering storms of war. The Japanese attack Pearl Harbor, and the two are called off on a secret mission to bomb Tokyo. In awesome 35mm Panavision (anamorphic widescreen), surrounded by 6 channels of DTS Digital Sound.. \$3. Room: 26-100. Sponsor: LSC.

10:00 p.m. – **LSC Presents: Pearl Harbor.** Replay. See 6:00p listing for description.. \$3. Room: 26-100. Sponsor: LSC.

10:00 p.m. – **Native American Women Filmmakers—Video Festival.** Three screenings featuring 12 films by Native American women filmmakers.. free. Room: 4-237. Sponsor: AISES, Committee on Campus Race Relations, Women’s Studies Program, Comparative Media Studies, International Film Club. Council for the Arts.

Tuesday, October 9

12:00 p.m. - 1:00 p.m. – **Telephone and Voice Mail Quick Start.** If you are new to MIT or want to learn more about the features on your telephone and voice-mail, this class is just what you need. Instructors will explain features which will help you get the most out of these useful tools and talk about the most common problems and where to go for help. Attendees will learn what features are available on different phones and classes of service. You will also be able to try features on telephones in the classroom. . free. Room: E19-732. Sponsor: Information Systems.

12:00 p.m. - 2:00 p.m. – **Dibner Institute Lunchtime Colloquium.** The Study of Technological Differentiation: The Case of the 18th-Century Electrical Technology. free. Room: E56-100. Sponsor: Dibner Institute.

4:00 p.m. – **Women’s Soccer vs. Wheaton.** free. Room: Steinbrenner. Sponsor: Department of Athletics.

4:00 p.m. - 6:00 p.m. – **STS Colloquium.** “The Moral Equivalence of the Scientist: The History of an Idea”. free. Room: Harvard Science Center, Room 226. Sponsor: STS. History of Science Department, Harvard.

4:15 p.m. - 5:30 p.m. – **GTL Seminar.** An Inlet Distortion Assessment During Aircraft Departures at High Angle of Attack for an F/A18A Aircraft.. free. Room: 31-161. Sponsor: Gas Turbine Laboratory.

4:30 p.m. - 5:30 p.m. – **“The index theorem for families of elliptic operators.”.** Organizers: M. Hopkins, R. Melrose, H. Miller and I.M. Singer. free. Room: 2-131. Sponsor: Topology and Analysis of Manifolds with Corners. Department of Mathematics.

8:00 p.m. – **A Free LSC Sneak Preview: Mulholland Drive.** From acclaimed director David Lynch, the film that won him Best Director at the 2001 Cannes Film Festival! A woman (Laura Harring) is abandoned on Mulholland Drive after a car accident and is struck with amnesia. She makes her way to an apartment where she meets an aspiring actress (Naomi Watts) who helps her put the pieces of her life back together. Elsewhere, other stories and characters weave into this ensemble piece, including a director (Justin Theroux) with mobster problems, and a man whose dream comes true. Also features Michael J. Anderson as a studio executive and Ann Miller as the manager of the apartment complex). Not scheduled for release in LA and NYC until this Friday, and not in general release for a week after that! See this movie before anyone else does, at LSC!. free. Room: 26-100. Sponsor: LSC.

Wednesday, October 10

11:00 a.m. - 12:00 p.m. – **Optics** . Photonic Devices Enabling Advanced Optical Systems. free. Room: 26-322 (On This Date Only). Sponsor: Optics.

12:00 p.m. - 1:00 p.m. – **Web At MIT Quick Start.** Learn how to explore the World Wide Web using Netscape, and get an introduction to the web at MIT. . free. Room: N42 Demo Center. Sponsor: Information Systems.

12:00 p.m. - 1:00 p.m. – **Note-Taking and Study Techniques.** Learn to get the most out of your lectures, text books and study time in this workshop.. free. Room: W20-407. Sponsor: Learning Strategies.

12:10 p.m. - 1:00 p.m. – **“Physical Oceanography Sack Lunch Seminar.** free. Room: 54-915. Sponsor: Physical Oceanography.

3:00 p.m. - 5:00 p.m. – **spouses&partners@mit - Delayed Culture Shock.** Join us as we discuss this normal and at times difficult response to moving to another country. Learn what culture shock is, and how to integrate the experience in a useful way.. free. Room: W20-400. Sponsor: spouses&partners@mit, MIT Medical.

4:00 p.m. - 5:00 p.m. – **Nanostructures Seminar Series.** “Novel II-VI Nanocrystal Gain Media: From Amplified Spontaneous Emission to Lasing.”. free. Room: Edgerton Hall, 34-101 (Refreshments served at 3:45 pm). Sponsor: Nanostructures Laboratory.

7:00 p.m. - 9:00 p.m. – **MIT Objectivist Club general meeting.** The MIT Objectivist Club’s general meetings. We discuss topics in philosophy and how they relate to different aspects of our world today. This term, we will also be having weekly study sessions, probably in epistemology, the philosophy of knowledge.. free. Room: 10-280 (Oct. 3), 4-144 (Oct. 10-Dec. 12). Sponsor: MIT Objectivist Club.

7:30 p.m. - 9:30 p.m. – **Renaissance Dancing.** There are many forms of Renaissance Dancing that we practice. From Italian ball to courtly pavans to English country. We dance them all with flair and fun. Dress is common street clothing. No experience necessary; instruction is provided. free. Room: W20 (Sala or 407 or 491). Sponsor: Society for Creative Anachronism.

8:00 p.m. - 10:30 p.m. – **IFilm Movie Seminar.** free. Room: 4-237. Sponsor: Graduate Student Council, International Film Club.

Thursday, October 11

12:00 p.m. – **MIT Chapel Concert: Boston Baked Bones.** John Faleta, Scott Harman, Maureen Horgan, Julie Josephson, Donald Robinson, trombones. Works by Debussy and others. 12noon, . free. Room: MIT Chapel. Sponsor: Music and Theater Arts Section.

12:00 p.m. - 1:00 p.m. – **Element K Hands-On Workshop.** Is web-based training for me? Spend an hour in an instructor-led workshop. Learn how to get started using web-based training, explore what is offered and ask questions. For more information about web-based training at MIT, see <http://web.mit.edu/is/training/wbt>. . free. Room: W89-125. Sponsor: Information Systems.

12:00 p.m. - 1:00 p.m. – **Java User Group.** A meeting of MIT staff members who develop Java software.. free. Room: N42 Demo Center. Sponsor: Information Systems.

3:30 p.m. - 5:00 p.m. – **Distinguished Lecturer Series.** “On-Line Science: The Virtual Observatory as a Prototype for the New Computational Science:”. free. Room: 34-101, 50 Vassar St.. Sponsor: Laboratory for Computer Science.

4:00 p.m. - 5:00 p.m. – **Empirical downscaling as a tool for climate model evaluation.** free. Room: 54-915. Sponsor: MIT Atmospheric Science Seminars.

4:15 p.m. - 5:15 p.m. – **Applications of an Implosion Engine.** ORC Fall Seminar Series. Seminar followed by reception in E40-106.. free. Room: E56-270. Sponsor: Operations Research Center.

4:15 p.m. – **M.I.T. Physics Colloquium** . free. Room: 10-250. Sponsor: Physics Department.

5:00 p.m. - 7:00 p.m. – **Writing for TV: The State of the Art.** The television drama series has been a dominant force in our culture for the past fifty years. The advent of cable and satellite broadcasting and the emergence of the Internet have transformed the TV medium in general and its story-telling functions in particular. In this Forum writer/producers for such innovative shows as The West Wing and Party of Five will discuss the current state of television drama, the commercial realities and artistic possibilities of TV today and in the future.. free. Room: 2-105. Sponsor: Communications Forum.

5:00 p.m. - 7:00 p.m. – **MIT Teach-Ins on the Crisis.** Economic Implications of the Crisis-discussion led by MIT Economics Professor Olivier Blanchard (Informal dinners for interested students, faculty, and staff will follow each Teach-In) Sponsored by the MIT Center for International Studies in cooperation with the Political Science Department, Boston Review, Foreign Languages and Literatures Section, Science, Technology and Society Program, Comparative Media Studies Program, Economics Department, and the Dean’s Office, School of Humanities, Arts, and Social Sciences.. free. Room: MIT Bldg. 26 Room 100. Sponsor: Center for International Studies.

7:45 p.m. – **MIT Women’s Choral: Rehearsal.** All women in the MIT community are welcome to join. New members accepted until October 18.. free. Room: Emma Rogers Room (10-340).. Sponsor: MIT Women’s Choral.

8:00 p.m. - 10:30 p.m. – **IFilm Movie Seminar.** free. Room: 4-237. Sponsor: Graduate Student Council, International Film Club.

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For further information, please visit mit.edu/arts/listfellow.html. To set up an appointment or obtain an application and guidelines, contact Maureen Costello at 617-253-4004, costello@media.mit.edu or Amy Sanford at amy@media.mit.edu, 617-253-8089

Program administered by Maureen Costello, Director of Special Programs, MIT Office of the Arts and cooperating members of the MIT community. Funding is provided by the generous support of the John S. and James L. Knight Foundation.

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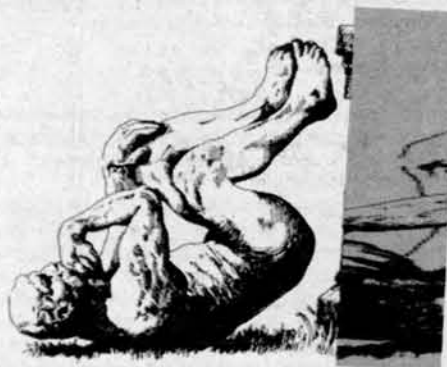


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The Ig Informal Lectures

Saturday, October 6, 1:00 pm
MIT 26-100, Cambridge (near Kendall T)

Two days after **The Eleventh 1st Annual Ig Nobel Prize Ceremony**, we are proud to host **The Ig Informal Lectures** here on the MIT campus. Please join us for a half-afternoon of improbably funny, informative, brief (10-15 minutes each), and high-spirited public lectures by some of this years honored Ig Nobel Prize winners:

- David Jones (Nature magazine's "Daedalus") will delight and confound everyone and everything.
- The 2001 Ig Nobel Prize winners in the fields of Biology, Medicine, Public Health, Economics, and Peace will attempt to explain why they've done what they've done.

The Ig Nobel Prizes honor people whose achievements "cannot or should not be reproduced." Ten prizes are given to people who have done remarkably goofy things — some of them admirable, some perhaps otherwise.

For more information on the 2001 Ig Nobel Prize Ceremony and the Ig Informal Lectures: <http://www.improbable.com/ig/ig-top.html>

All Ig Nobel Prizes activities are organized by the Annals of Improbable Research.
This free event is organized in cooperation with the MIT Press Bookstore.



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Yardley Wants Fewer Restrictions on Rush

IFC, from Page 1

said that the IFC will be more successful with rush in 2002 the more the rules are relaxed. "Every rule we have is a disadvantage," Yardley said.

Yardley does not want to restrict the behavior of the IFC members during the three weeks prior to rush by prohibiting letters, social events, and IFC members' interactions with freshmen. Yardley said that a dry rush and the somewhat ambiguous "spirit of rush" rule are important for 2002. He hopes to better define the "spirit of rush."

He also said that to run a dry rush, the IFC will need to define what constitutes a rush event. However, Yardley said that it will be unrealistic and unfair to ask houses to remain dry before rush.

Yardley hopes that freshmen can develop a sense of what a house is like during the semester.

IFC members satisfied with result

IFC President Rory P. Pheiffer '02 was pleased by the candidates who turned out for this election. "I think that all seven candidates were great," he said. Pheiffer hopes that all will remain involved in next year's recruitment activities.

Pheiffer believes that Yardley understands what concerns to

address, and believes that the com- placency of freshmen will be signif- icant. "He seemed to address the issues addressed by presidents," said Elizabeth A. Immen '02, presi- dent of the Women's Independent Living Group.

Emily M. Marcus G, Epsilon Theta president, said that the recruitment chair must not forget about the sororities and the indepen- dent living groups. "I am a little concerned about how the sororities and the ILGs will fit into his plat- form and that we will be thought of," Immen said. Nonetheless, she believes that Yardley is willing and able to learn the sorority and ILG needs, despite his lack of familiarity with them.

Greek Week to entice freshmen

Yardley supports the IFC's pre- sent idea to host a Greek Week prior to fall recruitment period. Yardley believes that freshmen living in dor- mitories will become envious of the IFC members who participate in campus-wide IFC events prior to rush, and that this will help to inter- est them in rush activities.

The IFC is currently accepting applications from greek affiliates who wish to join the Greek Week committee or one of several other committees.

Riot Police Detain Protesters

D.C., from Page 1

never seen so many cops in one place in my life. The best part of the picture, though, was the half- empty bottle of alcohol next to the bus.

Riot cops look silly. They have more padding than football play- ers, and these funny helmets you'd think exterminators would wear. They carry big black sticks and clear shields, and their belts are loaded with Mace.

There were riot cops on foot, riot cops on motorcycles, police cars following close behind us, and police on horseback that we met along the way. While our morning march was flanked and followed by police, I wasn't enormously wor- ried. They weren't arresting anyone; they weren't doing much more than honking at the people marching at the end of the group.

Under arrest?

When we got to the World Bank building, we stopped. I'm not entirely sure whether we stopped because of the police blocking the road, or whether the plan was actu- ally to stop there. At any rate, most of us had plans to head to the other

rally in Freedom Plaza. The people who I was with asked how to get there, and we turned back the way we came.

The way was blocked.

While my companions faced off with the policemen, I wandered the perimeter of the plaza. There were riot cops lining the whole place, and there was absolutely no way out. The police weren't letting people out. They weren't telling us why. They wouldn't give out their badge numbers. They wouldn't tell us if we were under arrest.

They had effectively turned the plaza into a temporary jail.

Escorted to Freedom

We were detained in the square for nearly two hours. Some people started up a soccer game; others took the opportunity to reiterate their messages with sidewalk chalk. My favorite? "All your street are belong to us." My favorite makeshift sign? "Welcome to G.W. Bush Federal Prison."

We surmised that the police were trying to prevent us from join- ing the other rally. After lots of phone calls on the part of the lawyers in the groups and threats of an injunction, the cops agreed to

"escort" us to Freedom Plaza. In other words, they blocked us from all four sides, and herded us over to the Plaza.

On the way, a small group tried to break through the police line. They were pushed back into the middle of the group, and the cops broke out their pepper spray.

Someone wanted to join us from the street. The police shoved him away. They eventually let him join in, but only after shoving him around quite a bit.

We finally got to Freedom Plaza, joining over 10,000 others in a per- mitted rally. We were still surround- ed by cops, but hey, at least they weren't shoving us around any more.

I'm not expert on the laws of Washington D.C., but detaining a thousand people in a plaza without really arresting them or telling them why doesn't sound very legal to me. Yet it happened, in the capital of the United States, the "bastion of free- dom."

And as some of the people who marched along with us chanted, "that is what a police state looks like."

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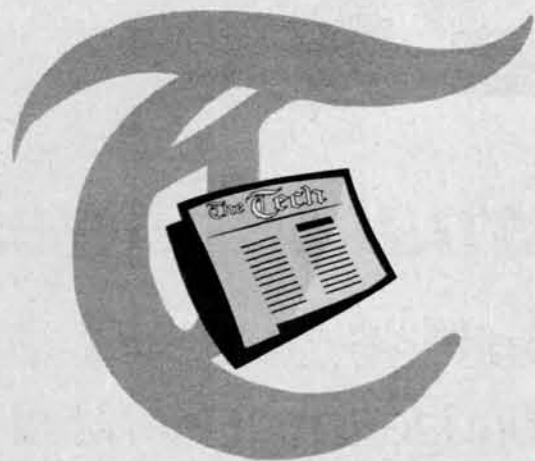
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Teams must consist of 2 or 3 MIT students. Due to great demand, 6.270 is a lotteried class. Teams must register for the lottery on October 18th and 19th in the Chu Lounge (38-201). All members must be present to sign up for the lottery.

Start the registration process at:
<http://web.mit.edu/6.270>

Questions? Contact:
6.270-organizers@mit.edu

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Tuesday, October 9th at 12:00Noon

David B.
FogelBook Discussion, Signing & Demonstration —
*Blondie24: The Fascinating Story of How a
Computer Taught Herself to Win at Checkers*

Using a program that emulated the basic principles of Darwinian evolution, David B. Fogel's computer program Blondie24 was able to discover on its own how to excel at the game of checkers. In *Blondie24*, he reveals the revolutionary thinking machine he co-created and gives a fascinating look at artificial intelligence.

Fittingly happening in the year that Arthur C. Clarke predicted we would succeed in creating a thinking machine, Blondie24 was able to earn a spot in the top 500 of an international checkers website. Fogel describes how, with only the most rudimentary information programmed into its "brain," Blondie24 created a means of evaluating the changing pieces that make up the game.

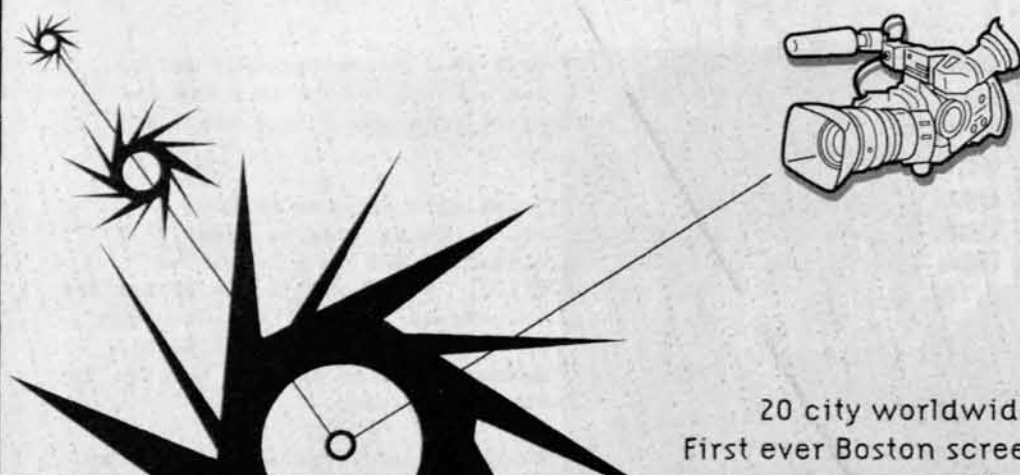
As part of the Author Series at the M.I.T. Coop, David B. Fogel will discuss and sign *Blondie24* on Tuesday, October 9th at 12:00Noon. He will demonstrate Blondie's abilities and offer the audience a chance to challenge her skills. All events are free & open to the public.

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Widnall's Air Force
Years Bolster Effort

Security, from Page 1

ics as the fundamental mission of Massport, the scope of its responsibilities, and its hiring and personnel policies. They also make recommendations its governing, finance, and management structures. The six-member committee must report to Swift by December 4.

Committee composed of experts

Widnall served as Air Force Secretary during the Clinton administration. She brings to the committee a background in aviation and federal government, with specific experience in operational issues.

The Task Force has already had two full Thursday meetings, and Widnall said the committee mem-

bers are doing considerable amounts of work on their own.

In the process of fulfilling her role on the committee, Widnall expects to visit Washington D.C. and conduct her own research. She described the task force as "a very distinguished group of people."

Marshall Carter is the chairman of the commission. Carter is the former head of the \$700 billion State Street Bank and Trust Co. Other members include: Robert F. Johnson, co-founder of First Security Services Corporation; Wayne Budd, former US attorney for Boston; Patricia McGovern, former state senator and chairwoman of the Senate Ways and Means Committee; and John Haley, former general manager of the MBTA.

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2. It's not mandatory.
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it wouldn't cost you a dime.



Saturday, October 27, 2001
11am - 3pm

Berlin Guarantees Better Food Service

Meal Plan, from Page 1

Director of Campus Dining Richard D. Berlin III spoke about the various complaints that students have sent to him by e-mail. One of these complaints dealt with the lack of student input when the initial dining proposals were drawn up.

Berlin accepted responsibility for the problem. "I take culpability on that," Berlin said.

FSILGs Against Mandatory Plan

Fraternities, sororities, and independent living groups could potentially suffer from the installation of a mandatory meal plan. Many houses serve dinner on most week nights during semester.

"Such an atmosphere is not commonplace in the residence halls as it is in the FSILG community," said IFC President Rory P. Pfeiffer '02.

If there is a mandatory meal plan for freshmen, Pfeiffer fears that freshmen members of FSILGs will be reluctant to eat dinners at their respective houses because they have already paid for meals on campus.

"Eventually in such a system the new members will lose their ties to the FSILG they joined and eventually decide not to move into the house their sophomore year or even quit the FSILG entirely," Pfeiffer said.

Pfeiffer has already met with Campus Activities Complex Director Phillip J. Walsh, and the IFC President's Council will invite the Campus Dining Review Board to their next meeting to discuss the meal plan.

"The IFC plans to work hard to make sure that our member's needs are met in any sort of new meal plan," Pfeiffer said.

MIT Card Possible for Star

Berlin said that the Office of

Campus Dining is currently working to bring Star Market in as a vendor which accepts the MIT card. This would mean that students would be able to use the meal card at Star Market to purchase food for what Berlin termed "self-cooking."

Berlin also discussed some of the points that would be written into the contract made with any food service provider. Under the current proposal, students would be able to review the menus of various dining halls, making them accountable for less than satisfactory service. This measure is meant to prevent dining providers from taking advantage of the fact that students would be forced to patronize their facilities on a regular basis.

Berlin said that improvements on the proposal will come about only through "diligence on the part of our office and students giving us feedback."

Vest Discusses Goals at DormCon

The issue of mandatory dining was also brought up in a DormCon meeting on Tuesday, which was attended by President Charles M. Vest. The main goal of this meeting was to discuss the long-range residential goals of the Institute and to listen to student concerns.

For obvious reasons, however, the discussion centered around the meal plan controversy. Students emphasized that trust in the dining system must be built before a real change can occur.

"Give us confidence that we will be able to eat good food at a good price," one student demanded.

Vest sympathized with students who have complained about the new dining proposals. "I did not like the way this was rolled out and done," Vest said.

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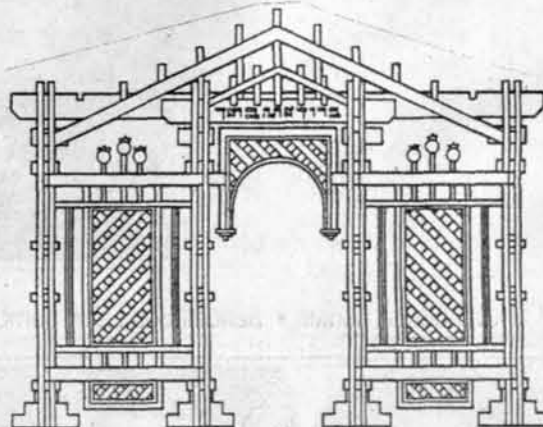
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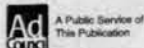
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electricity is being used to run computers that are left on. Look at how much water is being wasted in the restrooms. And

how much solid waste is being thrown out in the trash cans. We bet it's a lot. Now, here are some simple ways you can produce less waste at work. When you're at the copier, only make the copies you need. Use both sides of the paper when writing a memo. Turn off your light when you leave. Use a lower watt bulb in your lamps. Drink your coffee or tea out of mugs instead of throwaway cups.

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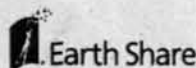
Set up a recycling bin for aluminum cans and one for bottles. And when you're in the bathroom brushing your teeth or washing your face, don't let the faucet

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Solution to Crossword

from page 12

BAD	REDLINE	PEP
ODE	ORIOLES	ARE
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ASS	SEMITES	AQUA
	KARASEA	SUIT
ELCID	NEAL	HISS
ALUMNA		LES
SAT	ENDEAVORING	
EMU	SNORTED	TOE
LAP	SECRETE	EVE

The MIT Lecture Series Committee Presents
An Evening of Lively Argument With



Neil Gaiman

Author of 'American Gods',
'Neverwhere', and the
Sandman series

Harlan Ellison

Author of 'I Have No Mouth
& I Must Scream, and
'Repent, Harlequin!' Said
the Ticktockman'



Peter David

Author of 'Imzadi' and
'Q-Squared', and writer of
the Babylon 5 episode
'There All the Honor Lies'

Saturday, October 6, 2001 at 7 pm

MIT Kresge Auditorium. Tickets on sale in Lobby 10 on October 1-5. \$4 to \$8 for MIT
community; \$8 to \$12 for college students and MIT alumni/ae; \$12 to \$16 for the public.

*An Evening of Lively Argument with... is presented by the MIT Lecture Series Committee alongside an optional East Campus/Egyptian Theater Series Pass.
This event is funded (in part) by the Council for the Arts at MIT, the Lecture Series Committee, the MIT Fund, and the Peter A. Bursky Fund for the Humanities.

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John Hume

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Football A league

Affiliation	Team	W	L	T	PF	PA
SLN	Sloan 1	2	0	0	38	6
IND	TD's	2	0	0	32	7
BGSA	Bad Boys	2	0	0	30	12
ATO	ATO	1	1	0	32	30
LLUA	LLUA	1	1	0	6	0
DU	DU	0	2	0	12	26
PKT	PKT	0	2	0	7	24
SLN	Sloan 2	0	2	0	6	26
DTD	DTD A	0	2	0	0	32



Football B league

Affiliation	Team	W	L	T	PF	PA
KS	Kappa Sig	2	0	0	73	26
ZP	All Zete 111001	2	0	0	54	12
CP	Chaketts	2	0	0	41	6
NH2	NH2	1	0	0	32	0
TANG	Tang Hall	1	0	0	20	0
IND	TXi	1	0	0	0	0
DTD	DTD B	1	0	0	0	0
SPE	SPE	1	0	0	12	0
PHYS	Unit Chargers	1	0	0	14	8
BURI	Burton I	1	1	0	50	28
AA	Stars	1	1	0	28	18
CHEE	ChE I	1	1	0	28	33
SN	Serpents	1	1	0	18	36
ZBT	Petunias	0	1	0	6	13
ADP	Fluffy Green Bunnies	0	1	0	6	18
PBE	Persis	0	2	0	8	30
LUCH	Lucha	0	2	0	21	28
CHEE	ChE 2	0	2	0	0	48
BAK	Baker	0	2	0	6	45
NEXT	Next House	0	2	0	0	68



Soccer A league

Affiliation	Team	W	L	T	PF	PA
IND	Latinos Futbol Club	1	0	0	2	1
IND	Africans	0	0	1	2	2
DTD	DTD	0	0	1	2	2
SLN	Sloan 1	0	0	1	3	3
SLN	Sloan 2	0	0	1	3	3
BAK	Baker	0	0	0	0	0
IND	B-League All-Stars	0	0	0	0	0
PSK	Boys in Blue	0	0	0	0	0
DU	DU Destroyers	0	1	0	1	2



Soccer B+ league

Affiliation	Team	W	L	T	PF	PA
TPP	TPP	1	0	0	9	0
TSA	Besinamo	1	0	0	8	0
ZBT	Strikers	1	0	0	6	0
KS	Kappa Sigma	1	0	0	5	0
ASH	Ashdown	1	0	0	5	1
IND	Math	1	0	0	4	0
TMIT	TSMIT	1	0	0	0	0
MECH	MechE	1	0	0	2	0
NSC	Sixers	1	0	0	2	0
ZP	Zeta Psi	1	0	0	3	1
PBE	Wing-It	1	0	0	2	1
AICS	Cold Booters	0	0	1	2	2
EAPS	EAPS	0	0	1	2	2
ECON	Hasta La Victoria	0	0	1	1	1
TXI	Theta Xi	0	0	1	1	1
AA	Stars	0	0	0	0	0
ALUM	MIT Club of Boston	0	0	0	0	0
CP	Chi Phi	0	0	0	0	0
HST	Paparazzi	0	0	0	0	0
LCA	LCA	0	1	0	1	2
ND	Nu Delta	0	1	0	0	2



Tennis A league

Affiliation	Team	W	L	T	PF	PA
EURO	Euroclub	3	0	0	9	0
ASH	Ashdown	2	1	0	6	3
KS	Kappa Sigma	1	0	0	2	1
PBE	DST	1	0	0	2	1
PKT	Wessyders	1	1	0	4	2
TANG	Tang Hall	1	1	0	4	2
CHEE	CHEME A	1	1	0	3	3
EC	East Campus	1	1	0	2	4
ZP	Jigglypuff	1	2	0	3	6
AEPI	Lions	0	0	0	0	0
IND	Smashing Lid Cans	0	1	0	0	3
HST	HST & The Warehouse	0	2	0	1	5
DTD	Delta Tau Delta	0	2	0	0	6



Tennis B league

Affiliation	Team	W	L	T	PF	PA
PKT	PKT	2	0	0	6	0
SPE	Muff Divers	2	0	0	6	0
AA	Racquet Scientists	2	0	0	6	0
DU	Ducks	2	0	0	5	1
TANG	Tang Hall	1	0	0	3	0
PLP	PiLam	1	0	0	2	1
PSK	Phi Sig	1	0	0	2	1
DUSP	DUSP	1	0	0	2	1
TPP	Sharkey's Machine	1	1	0	4	2
ZBT	Zenter Court	1	1	0	4	2
EDG	Edgerton 2	1	1	0	4	2
PHYS	the Deuce bigalows	1	1	0	3	3
HKSS	Hong Kong Student Society	1	1	0	3	3
CP	Chi Phi	1	1	0	3	3
TC	Theta Chi	1	1	0	3	3
SN	Serpents	1	1	0	2	4
BAK	Baker	1	1	0	2	4
TPP	Go Figueiredo	1	1	0	2	4
MGD	MacGregor D-Entry	1	1	0	2	4
BURI	Burton I	1	2	0	2	7
ZP	Awesome	0	1	0	1	2
MGJ	H RESULT	0	1	0	1	2
MSE	Strung Out	0	1	0	1	2
AXO	AXO	0	1	0	0	3
CHEE	CHEME B	0	1	0	0	3
EDG	Edgerton I	0	2	0	2	4
ZBT	Ghetto Smurfs	0	2	0	1	5
NEXT	Smooth Peanut Butter	0	2	0	0	6

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lunch alone?*

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*Saturday, October 27
Don't miss it.*

Women's Soccer Team Goes On the Road

Defeats Babson Beavers and Clark Cougars, But Falls to Fourth-Ranked Springfield

By Melissa Hart
TEAM COACH

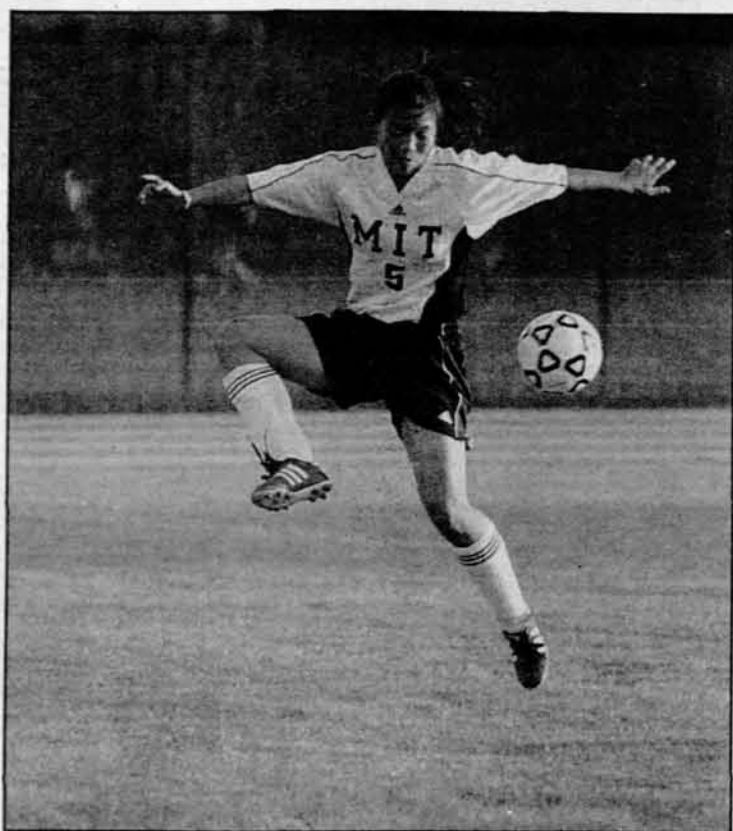
Women's soccer started out the week on Tuesday, travelling to face the Babson Beavers. Babson, ranked seventh in New England, was protecting a season with only one loss.

The Engineers led throughout the contest. From the first whistle, it was evident that MIT had the advantage as they moved the ball around the chasing Babson players.

In Shirley Chan's '02 first game this season after a pre-season scrimmage injury, Chan made good use of her first few minutes on the game field. Kelli A. Griffin '03 pushed a pass through the Babson defense that Chan pursued relentlessly, and finished with pure hustle.

Although MIT dominated play, the Engineers held only a one-goal lead at halftime. That lead would quickly widen though as defender Sheila E. Saroglou '03 scored her first collegiate goal for the Engineers in the opening five minutes of the second half, with a header off of a Sarah K. Perlmutter '02 corner kick.

Babson answered this goal three minutes later with a goal of their own, putting Babson in close striking distance. Though Babson began to put pressure on the MIT goal, Connie Yang '03 shot down a number of Babson's chances and racked up ten saves on the day, with six coming in the final twenty



Shirley Chan '04 traps the ball in yesterday's 5-1 win over Curry College. Chan scored one of the Engineers' five goals, bringing MIT's record to 8-2.

minutes of the game.

Candace N. Wilson '04 beat two defenders and then the goalkeeper with ten minutes left for some added insurance for the victory.

MIT went away and defeated

ranked Babson College 3-1 to improve to a 5-1 record.

MIT defeats Clark Cougars

Earlier in the week, MIT faced the Clark Cougars in a make-up game. Last season, Clark stole two close games from an aggressive MIT team, and though it appeared Clark might try the same trick this year, MIT's perseverance paid off in an Engineer victory.

Although MIT had many opportunities to score early on, their only goal in the first half came from the powerful throw-in by midfielder Monica F. Morrison '04 and subsequent header by Griffin.

Despite strong play and a half-time lead for the Engineers, Clark came out feisty and determined in the second half. Although MIT continued to move the ball adeptly, Clark's aggressive play coupled with a MIT team complacent with their first half performance allowed Clark to score two goals.

MIT found themselves in the all too familiar circumstance with Clark: MIT was outplaying Clark, yet MIT trailed in the score, 2-1.

The Beavers remained composed, and continued a methodical and persistent attack that turned particularly dangerous with about eight and a half minutes to go in the match. Candace N. Wilson '04 was fed a through ball, and worked hard to beat the defender. Wilson was able to keep control and shot a rocket past the Clark goalkeeper for the tying goal.

A minute later Wilson struck again as she assisted the strike with a lovely cross to Perlmutter. Perlmutter volleyed the cross emphatically into the goal. Clark was dumfounded as they went from victory to defeat in just over one minute.

Morrison punctuated the win with a last minute goal from Griffin's feed through the middle.

Yang had five saves for MIT as they gained their sixth victory of the season with a 4-2 defeat of the Cougars.

Tech falls to Springfield

MIT dropped a game 3-1 on Saturday to Springfield College, the fourth ranked team in New England. MIT traveled to Springfield to take on the host Pride, and both teams were undefeated in the conference.

The match was a battle of scoring opportunities, and it began in quite promising fashion for the Engineers. Team high scorer Griffin connected on a corner kick in the second minute of play to put MIT ahead 1-0.

Although MIT led play for the next 25 minutes, Springfield's dangerous counterattacks produced one goal for the Pride. The goal came from a corner kick and evened the score.

During the final 15 minutes of the first half, the game evened out entirely, and both teams saw top scoring opportunities turned away by either outstanding defender or goalkeeper play. The score at half-time was 1-1.

The second half the game continued to ebb and flow back and forth on the pitch. Springfield cashed in on a header off of another corner kick in the 61st minute.

Though MIT would still have a number of chances to score, they could not tie the game, and grew increasingly more frustrated.

Springfield showed composure down the stretch, and scored a sealing goal in the final fifteen minutes, taking advantage of some defensive confusion.

MIT never regained composure in the final stretch and walked away, taking a 3-1 loss.

Despite the loss and the three goals the Engineers allowed, middle defenders Rebecca E. Clinton '03 and Saroglou stepped up and made numerous defensive stops of a dangerous Springfield attack.

Goalkeeper Yang recorded 11 saves despite having a hard collision with a Springfield player early in the first half.

MIT falls to 6-2 overall and 2-1 in the New England Women's and Men's Athletic Conference after the Springfield loss. MIT's next match is at home again Saturday, October 6, at 10:30 a.m.

Women's Volleyball Wins Four

Wins Bates Tourney, Retains Top Ranking In New England Area

By Paul Dill
TEAM COACH

MIT remained the number one volleyball team in New England after they won all four matches this weekend, beating Bowdoin College, Bridgewater State College, Bates College and Tufts University on their way to winning the twelve team Bates College Tournament.

Earlier in the week, MIT also shut out conference foes WPI and Wheaton College to go 6-0 for the week.

Engineers win Bates tournament

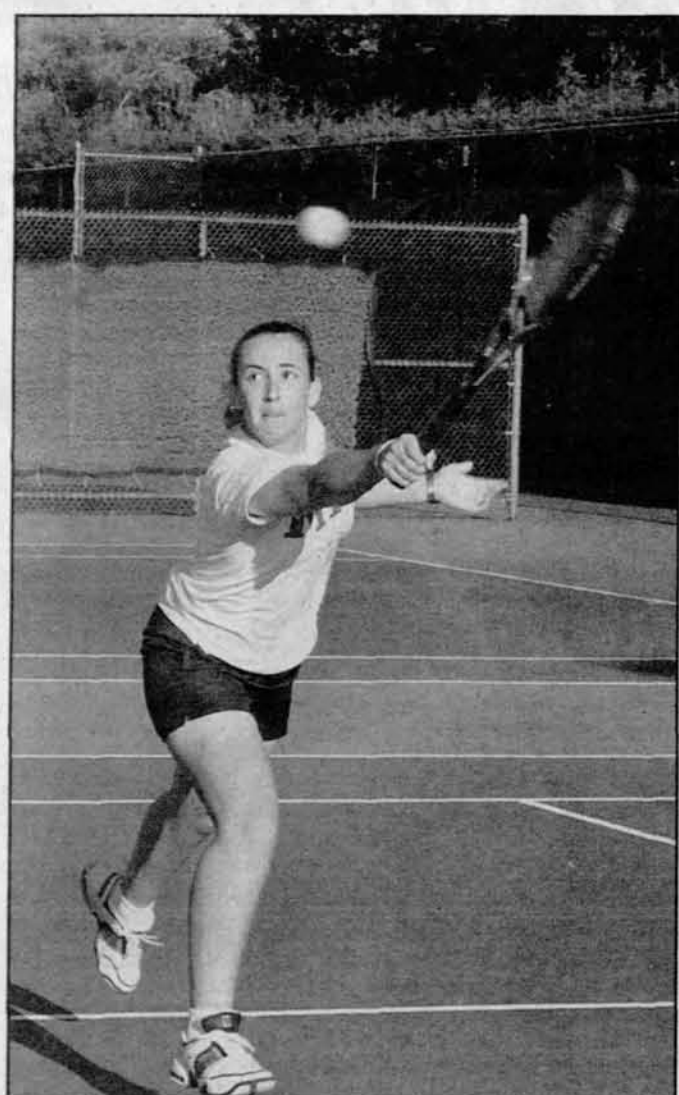
The Engineers started the week by defeating Bowdoin College 3-0 (30-14, 30-21, 30-20). The team was led by the serving of Kelly A. Martens '03 and Barbara J. Schultze '02. Both Martens and Schultze had seven aces during the match. Samantha K. Brenner '04 also came off the bench to add seven assists to the effort.

Number eight ranked Bridgewater State College put up a fight, taking the first game 33-31, but MIT bounced back behind 16 kills from Amy W. Mok '02 and five aces from Linda M. Yu '02. MIT took the next three games to win the match 3-1 (31-33, 30-19, 30-18, 30-25).

The semi-final match saw MIT take on the hosts, number seven-ranked Bates College. Although challenged, MIT controlled the match, winning 3-0 (30-26, 30-28, 30-18). Martens led the team with 16 kills, while Lauren E. Frick '03 had four kills with no errors for a .800 hitting percentage.

The finals saw a rematch with number six ranked Tufts University, who MIT had beaten last weekend in the semi-finals of the Amherst College Tournament. It turned out to be deja vu all over again as the Engineers again won 3-0 (30-22, 30-14, 30-18) to take the championship trophy. Christina Almodovar '02 dished out 37 assists while Nydia M. Clayton '04 added 12 kills. Almodovar was named to the All-Tournament team.

This was the third straight tournament that MIT has won this season, and they hope to win their fourth straight as they head to the Eastern Connecticut State University tournament this weekend where they are defending champions.



Larisa M. Egloff '04 lunges for the ball during a doubles match against Tufts University. Egloff won her match 8-2, but MIT lost overall.

Men's Water Polo Shines in California

Wins Four of Six Games While Competing in Tournament

By Roger F. Crosley
DIRECTOR OF SPORTS INFORMATION

The MIT women's volleyball team continues to roll, adding the Bates Invitational Tournament Championship to its resumé. The Engineers, currently ranked number one in New England Division III and 20th nationally in Division III, are 18-1 and have won 16 consecutive matches. At the Bates Tournament, MIT won four matches, dropping only one game. Christina Almodovar '02, MIT's setter, was named to the All-tournament team.

A weekend trip to a tournament in California solidified MIT's status as one of the top Division III men's water polo teams in the country. The Engineers are currently ranked fourth, and won four of the six games they played in the tournament. James C. Brady '03 was the leading scorer in the tourney for the Engineers, with 12 goals. Brady also made 18 steals.

In cross country, the MIT men placed seventh at the national championship preview meet at

Augustana College in Illinois. The Engineers finished only 34 points out of third place, while competing without their number two runner, who was recovering from injury. Daniel R. Feldman '02 was the top finisher for the Engineers, placing sixth.

The cross country Engineer women captured the Mini-NEWMAC Meet held at Franklin Park. Martha W. Buckley '04 and Julia C. Espel '05 led the way for MIT, with third and fourth place finishes respectively.

MIT men's tennis player Jeffrey P. Augustyn '03 reached the semi-finals of the Intercollegiate Tennis Association New England Division III Championship last weekend before falling to the number one seed and eventual champion Josh Lefkowitz from Williams College.

Defensive back Brian D. Hoying '03 received two honors for his play in MIT's recent football game against UMass Dartmouth. Hoying was named the MIT most valuable player in the game for the Chancellor's Cup in which he made 10 tackles (nine solo) and intercepted a pass in the end zone. In addition, Hoying was named to the New England Football Conference Weekly Honor Roll.

UPCOMING HOME EVENTS



Saturday, October 6

Women's Soccer vs. Smith, 10:30 a.m.
Football vs. Bridgewater State, 1:30 p.m.

Tuesday, October 9

Women's Soccer vs. Wheaton, 4:00 p.m.



Sports Shorts